Project Name: Project Code: Agency Name:	Soil Studies in the Lower I EDGEROI Site ID: CSIRO Division of Soils (Q	ed350 Observation ID: 1							
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	W.T. Ward 30/10/87 Sheet No. : 8837_N 1:50000	Locality:J.Amos/R.Simpson, WoodvilleElevation:296 metresRainfall:No DataRunoff:No DataDrainage:No Data							
<u>Geology</u> ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Parent. Mat.: No Data Substrate Material: No Data							
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	No Data No Data Hillslope 2 %	Pattern Type:No DataRelief:No DataSlope Category:Gently inclinedAspect:180 degrees							
Surface Soil C	ondition (dry): Self-mulching								
Erosion: Soil Classifica	lian								
Australian Soil C N/A ASC Confidence Confidence level	e: not specified	Mapping Unit:N/APrincipal Profile Form:Ug5.15Great Soil Group:Brown clay							
Site Disturbant	ce: Complete clearing. Pasture, na	ative or improved, cultivated at some stage							
Surface Coarse	e Fragments:								
Profile Morpho									
A11 0-0.1 n	Moderate grade of structur mm, Granular; Smooth-peo (0.075-1mm) macropores,	Dark reddish brown (5YR3/3-Moist); Dark reddish brown (5YR3/3-Dry); ; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm subrounded, Quartz, coarse fragments; Field pH 7 (pH meter); Few, very fine (0-1mm) roots;							
A12 0.1 - 0.2	grade of structure, 20-50 m crack; Few (<1 per 100mm consistence; 0-2%, coarse	Dark reddish brown (5YR3/3-Moist); , 5YR31, 0-2% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 0-2%, coarse gravelly, 20-60mm, angular, Ironstone, coarse fragments; Field pH 8 (pH meter); Few, very fine (0-1mm) roots;							
A13 0.25 - 0.	Prismatic; Moderate grade Medium, (5 - 10) mm crack Moderately moist; Very stru Ironstone, coarse fragment	/4-Moist); ; Medium clay; Moderate grade of structure, 50-100 of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric s; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, ong consistence; 0-2%, coarse gravelly, 20-60mm, angular, ts; Few (2 - 10%), Calcareous, Medium (2 -6 mm), Soft (pH meter); Few, very fine (0-1mm) roots;							
A14 0.55 - 0.	Lenticular; Moderate grade - 5) mm crack; Few (<1 pe Very strong consistence; 0 fragments; Very few (0 - 2	Dusky red (2.5YR3/2-Moist); ; Medium heavy clay; Weak grade of structure, 100-200 mm, Lenticular; Moderate 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; Very strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Very few (0 - 2%), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -							
B2 0.9 - 2 n	Lenticular; Moderate grade (0 - 5) mm crack; Few (<1 Very firm consistence; 0-2 fragments; Very few (0 - 2	; ; Medium heavy clay; Weak grade of structure, 100-200 mm, e of structure, 20-50 mm, Subangular blocky; Smooth-ped fabri per 100mm2) Very fine (0.075-1mm) macropores, Moderately %, coarse gravelly, 20-60mm, subrounded, Sandstone, coarse %), Calcareous, Medium (2 -6 mm), Soft segregations; Field p (0-1mm) roots; Diffuse, Smooth change to -	/ moist;						

Projec	t Name:	Soil Studies in t	he Lower I						
Project Code:		EDGEROI	Site ID: ed350)	Observation II		1	
Agency Name:		CSIRO Division	of Soils (Q	LD)					
C	2 - 2 77 m	Very nale brow	wn (10VR7/3	-Moist)	7 5YR56	10-20%	15-30mm	Prominent:	7 5YR56

C 2 - 2.77 m Very pale brown (10YR7/3-Moist); , 7.5YR56, 10-20%, 15-30mm, Prominent; , 7.5YR56, 2-10% , 5-15mm, Prominent; Light medium clay; Massive grade of structure; Moderate grade of structure, 2-5 mm, Cast; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Basalt, coarse fragments; Field pH 8.8 (pH meter);

Morphological Notes

Ironstone at 10cm plus some quartz, subrounded, on surface. About 3cm of granular structure at the surface. Subrounded ferruginous sandstone pebble at 150cm. Fragments of weathering basalt at 190cm.

Observation Notes

Parent Rock: residual, from basalt, with colluvium from sandstone, non-calcareous Purlawaugh Formation Site Notes

Sites 347-352 are spaced at 2m intervals; 353 is 90m from 352. 350 is at the crest of the second puff on the transect.

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Project Code:	EDGEROI	Site ID:	ed350	Observation ID:	1
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)		

Laboratory Test Results:

Depth	рН	1:5 EC Ca		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		wig	ĸ	Cmol (%
0 - 0.1	7.6A	0.144A 1	7.52B	14.15	1.31	0.49				
0.1 - 0.2	8.15A	9.100001E-2 02A	22.08B	19.23	0.52	1.13				
0.3 - 0.4	8.98A	0.252A 1	2.62B	27.2	0.4	3.28				
0.7 - 0.8	9.18A	0.665A 5	5.84B	34.86	0.34	9.51				
1.2 - 1.3	8.87A	1.123A 6	6.62B	31.51	0.29	9.13				
2.5 - 2.6	8.66A	1.165A 7	7.67B	47.14	0.2	15.18				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Particle S		Size	Size Analysis	
		С	Р	Р	Ν	K	Density	GV	CS	FS	Silt	Clay		
m	%	%	mg/kg	%	%	%	Mg/m3			%				
0 - 0.1	<0.1B	1.78C	14J											
0.1 - 0.2	<0.1B	1.11C	1.4J											
0.3 - 0.4	3.9B	0.61C	<1J											
0.7 - 0.8	4.8B	0.62C	<1J											
1.2 - 1.3	6B	0.17C	<1J											
2.5 - 2.6	8.5B	0.9C	6.1J											

Depth	COLE	Gravimetric/Volumetric Water Contents								K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m				g	/g - m3/m3	3			mm/h	mm/h
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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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 15A2_MG Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 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
- EC of 1:5 soil/water extract 3A1
- 4A1 pH of 1:5 soil/water suspension
- 5A2 Chloride - 1:5 soil/water extract, automated colour
- Total organic carbon high frequency induction furnace, infrared Water soluble nitrate automated colour 6B3
- 7B1
- 9B1 Bicarbonate-extractable phosphorus - manual colour