Project Name: Project Code: Agency Name:	Soil Studies in the Lower I EDGEROI Site ID: CSIRO Division of Soils (C	ed082 C	Observation ID:	1
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	D. McGarry 03/07/86 Sheet No. : 8837_N 1:50000 6667700 AMG zone: 55 771900 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Keith R. Hall, Miri 256 metres No Data No Data No Data No Data	rabooka
<u>Geology</u> ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Pare Substrate Materia		
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	No Data No Data Terrace plain 0 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Very gently slope No Data	d
Surface Soil Co Erosion:	ndition (dry): Surface crust, R	Recently cultivated		
Soil Classificati	on			
Australian Soil Cl N/A ASC Confidence Confidence level r Site Disturbanc	:	Princi	ing Unit: pal Profile Form: Soil Group:	N/A Ug5.15 Grey clay
Vegetation:	_			
Surface Coarse				
Profile Morphol A11p 0 - 0.12 n		nular; Moderate grade 0 - 5) mm crack; Few	of structure, 20-50 (<1 per 100mm2) \	/ery fine (0.075-1mm)
A12 0.12 - 0.2	mm, Angular blocky; Smoo (0.075-1mm) macropores	oth-ped fabric; Fine, ( , Moderately moist; V	0 - 5) mm crack; Fe ery strong consister	e grade of structure, 10-20 w (<1 per 100mm2) Very fine nce; 0-2%, fine gravelly, 2- er); Few, very fine (0-1mm)
A13 0.25 - 0.5	5 m Very dark greyish brown (1 20-50 mm, Angular blocky 100mm2) Very fine (0.075- 2%, fine gravelly, 2-6mm, s Calcareous, Fine (0 - 2 mm	; Smooth-ped fabric; I -1mm) macropores, N subangular, Quartz, c	Medium, (5 - 10) mr Ioderately moist; Ve coarse fragments; V	n crack; Few (<1 per ery strong consistence; 0- ery few (0 - 2 %),
A14 0.55 - 1 n	n Very dark greyish brown (1 0-2%, 5-15mm, Distinct; N Moderate grade of structur crack; Few (<1 per 100mm consistence; Very few (0 - meter); Few, very fine (0-1	Medium clay; Weak gr re, 20-50 mm, Angula n2) Very fine (0.075-1 2 %), Calcareous, Me	ade of structure, 50 r blocky; Smooth-pe mm) macropores, M edium (2 -6 mm), No	ed fabric; Fine, (0 - 5) mm /loderately moist; Strong
B21 1 - 1.9 m	15mm, Distinct; Medium he grade of structure, 20-50 n (<1 per 100mm2) Very fine	eavy clay; Weak grad nm, Angular blocky; S e (0.075-1mm) macro , Fine (0 - 2 mm), Cry	le of structure, 50-10 Smooth-ped fabric; F pores, Moderately n	
B22 1.9 - 2.66	m Dark brown (10YR3/3-Mois grade of structure, 50-100 Smooth-ped fabric; Fine, ( macropores, Moderately m subrounded, Consolidated	mm, Lenticular; Weal 0 - 5) mm crack; Few noist; Very firm consis	k grade of structure (<1 per 100mm2) \ tence; 2-10%, coars	/ery fine (0.075-1mm) se gravelly, 20-60mm,

## Morphological Notes

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Agency Name.			(20)		

A11p	The carbonate in layer 03 is fine earth. Gypsum in layer 05 occupies faunal
	passageways and is only present from 100-140cm. Note dark B2 main colour. From
A12	5cm) quartzite stones. Not a good example of Ug5.15 as subsoil is too dark. Resembles
	profile at Edgeroi rubbish dump.

# **Observation Notes**

Parent Rock: alluvial sediment, clay, mixed texture, non-calcareous fifth (eroded) fan

## Site Notes

Water worn basalt gravels and decomposed gravel at 200-260cm, quite rounded. Flat site with wheat stubble next to a small gully leading into Galathera Creek. Few waterworn gravels on the surface.

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# Laboratory Test Results:

Depth	рН	1:5 EC		changeable			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.02	8.43A	0.127A	25.62B	4.17	1.02	0.26				
0 - 0.1	7.41A	0.172A	20.66B	4.96	0.97	0.45				
0.12 - 0.2	8.11A	0.086A	20.88B	5.83	0.6	1.05				
0.3 - 0.4	9.14A	0.19A	21.44B	8.35	0.35	2.86				
0.7 - 0.8	9.27A	0.424A	18.1B	11.23	0.31	7.74				
1.2 - 1.3	8.28A	1.671A	20.25B	11.85	0.31	8.42				
2.5 - 2.6	7.29A	0.748A	17.36B	7.75	0.28	6.78				
Depth	CaCO3	Organic	Avail.	Total	Total	Tot	al Bulk	Particle	Size	Analysis

1

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Р	article	Size	Analysis	5
		C	Р	Р	Ν	к	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		-
0 - 0.02	0.7B	1.04C									9.9	35.9
0 - 0.1	0.1B	1.46C	15.6J								9.9	32.9
0.12 - 0.2	<0.1B	0.9C	6.1J								7.9	34.5
0.3 - 0.4	4.8B	0.66C	2.1J								8.8	36.2
0.7 - 0.8	6.5B	0.55C	1.1J								11.5	40.4
1.2 - 1.3	2.9B	0.23C	1.2J								13.1	45.5
2.5 - 2.6	<0.1B	0.11C	3.2J								11.1	42.8

Depth	COLE	Gravimetric/Volumetric Water Contents	K sat	K unsat
m		Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar g/g - m3/m3	mm/h	mm/h
0 - 0.02 0 - 0.1				

0 - 0.1 0.12 - 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 Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
- 15A2\_NA 19B1 Carbonates - manometric
- EC of 1:5 soil/water extract 3A1
- 4A1 pH of 1:5 soil/water suspension
- Chloride 1:5 soil/water extract, automated colour 5A2
- Total organic carbon high frequency induction furnace, infrared Water soluble nitrate automated colour 6B3
- 7B1
- Bicarbonate-extractable phosphorus manual colour 9B1
- P10\_CF\_C P10\_CF\_Z Clay (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method