Projec	t Name: t Code: y Name:	ED	il Studies in the Lower N GEROI Site ID: IRO Division of Soils (QI	ed058		oservatio	n ID:	1		
Site In	Site Information									
Desc. E Date De Map Re Northin Easting Geolog	esc.: ef.: ng/Long.: ŋ/Lat.:	D. McGarry 02/04/85 Sheet No. : 8837_N 1:50000 6670500 AMG zone: 55 754100 Datum: AGD66		Locality: Elevation: Rainfall: Runoff: Drainage:		P.C.S.(Peter) McI 200 metres No Data No Data No Data		Douall, Bald Hill		
	ireType:	Undis No Da	sturbed soil core ata	Conf. Sub. is Parent. Mat.:No Dat.Substrate Material:No Dat.						
Rel/Slo Morph.				Relief:	Slope Category:					
<u>Surfac</u>	e Soil Co	nditic	on (dry): Hardsetting, Poa	ched						
<u>Erosio</u>										
<u>Soil Cl</u>	assificati	<u>on</u>								
	ian Soil Cl	assific	cation:			ng Unit:	_	N/A		
N/A	onfidence:					al Profile Soil Group		Ug5.16 Grey clay		
	ence level n						•	Grey clay		
Site Di	sturbanc	<u>e:</u>								
Vegeta		_								
	e Coarse		ments:							
A11	9 Morphol 0 - 0.05 m		Very dark greyish brown (10YR3/2-Moist); Grey (10YR6/1-Dry); ; Sandy clay loam (Light); Weak grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular tabular, Quartz, coarse fragments; Field pH 6.5 (pH meter); Common, very fine (0-1mm) roots; Abrupt, Wavy change to -							
A12	0.05 - 0.1	m	Very dark grey (10YR3/1-Moist); Very dark grey (10YR3/1-Dry); ; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular tabular, Quartz, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots;							
A13	0.1 - 0.25	m	Very dark grey (10YR3/1-Moist); Very dark grey (10YR3/1-Dry); ; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular tabular, Quartz, coarse fragments; Field pH 8 (pH meter); Common, very fine (0-1mm) roots;							
A14	0.25 - 0.6	5 m	Very dark grey (10YR3/1-Moist); Very dark grey (10YR3/1-Dry); , 10YR82, 0-2% , 0-5mm, Faint; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-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, Fine (0 - 2 mm), Nodules; Field pH 9.5 (pH meter); Few, very fine (0-1mm) roots; Clear, Wavy change to -							
A2	0.65 - 0.9	5 m	Dark greyish brown (10YR4/2-Moist); , N30, 2-10% , 0-5mm, Distinct; , 7.5YR82, 0-2% , 0-5mm, Faint; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-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, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Clear, Smooth change to -							
B2	0.95 - 1.9	m	Brown (7.5YR4/2-Moist); , 5R31, 0-2% , 0-5mm, Faint; Medium clay; Strong 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; Firm consistence; Field pH 9 (pH meter);							

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1.9 - 2.75 m Brown (7.5YR4/2-Moist); , N20, 2-10% , 15-30mm, Distinct; , 7.5YR56, 0-2% , 0-5mm, Distinct; Medium clay; Strong 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, Firm consistence; Few (2 - 10 %), Argillaceous, Very coarse (20 - 60 mm), Veins; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.5 (pH meter);

Morphological Notes

Large carbonate segregations occur between 200-230cm. Surface layer is lightly dispersed fine sand. It may also be a new deposit of sand but this is believed to be less likely ? Ug5.16.

Observation Notes

Parent Rock: alluvial sediment, clay, parna on fourth fan

Site Notes

This pasture is trampled, non-mulching soil. Grasses and herbs are barely recognisable due to grazing.

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Agency Name:	CSIRO Division	of Soils (C	(LD)		

Laboratory Test Results:

Depth	рН	1:5 EC	Ex	changeable	e Cations	;	Exchangeable	CEC	ECEC	ESP
m		C dS/m	a	Mg	К	Na Cmol (Acidity (+)/kg			%
0 - 0.02	7.22A	0.057A	5.67B	5.7	0.72	0.96				
0 - 0.05	6.82A	0.1A	5.32B	4.4	0.62	0.9				
0.05 - 0.1	7.41A	0.077A	10.43B	6.3	0.54	1.99				
0.1 - 0.2	8.38A	0.141A	15.12B	8.62	0.41	3.28				
0.3 - 0.4	9.18A	0.554A	18.22B	10.85	0.49	5.35				
0.7 - 0.8	8.52A	1.054A	18.82B	11.44	0.91	6.59				
1.2 - 1.3	8.9A	0.837A	20.48B	11.87	1.09	7.54				
2.5 - 2.6	8.78A	0.849A	23.16B	12.58	0.97	8.03000 1				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		article CS	Size FS		Clay
m	%	%	mg/kg	%	%	%	Mg/m3		00	%	on	Olay
0 - 0.02	<0.1B	1.08C									15.3	26.6
0 - 0.05	<0.1B	1.48C	9.8J								14.4	24.7
0.05 - 0.1	0.1B	0.75C	3.3J								18	34.5
0.1 - 0.2	0.1B	0.63C	1.5J								21.8	40.7
0.3 - 0.4	0.9B	0.47C	1.4J								23.2	48.5
0.7 - 0.8	0.7B	0.18C	9.4J								18.1	48.2
1.2 - 1.3	0.4B	0.05C	6.2J								17.4	56.3
2.5 - 2.6	0.6B	0.08C	3.1J								19	59.9
Depth	COLE	Sat.	Grav 0.05 Bar	imetric/Vo 0.1 Bar	olumetric W 0.5 Bar	/ater Conte 1 Bar		15 Bar	K s	at	K unsat	:
m		381.	0.03 Bar		о.5 Баг /g - m3/m3		5 Dar		mm	ı/h	mm/h	

0 - 0.02 0 - 0.05 0.05 - 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	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