Project Name Project Code: Agency Name	ED	il Studies in the Lower N DGEROI Site ID: SIRO Division of Soils (Q	ed135	Observation II	D: 1			
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long. Easting/Lat.:	W.T. 19/12 Shee : 6660	Ward 2/86 et No. : 8837_N 1:50000 1400 AMG zone: 55 00 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	N.A.(Tony) Ba 253 metres No Data No Data No Data No Data	arrett, Yera			
Geology ExposureType: Geol. Ref.:	Undi: No D	sturbed soil core Data	Conf. Sub. is Pa Substrate Mate	Data Data				
Land Form Rel/Slope Class Morph. Type: Elem. Type: Slope:	s: No D No D Hillsl 1 %	Data	Pattern Type: Relief: Slope Category Aspect:	No Data No Data y: Very gently sloped 15 degrees				
Surface Soil C	Conditi	on (dry): Surface crust, P	oached					
Erosion: Soil Classifica	ation							
Australian Soil N/A ASC Confidence Confidence leve Site Disturbar	Classifi ce:		Prir Gre	oping Unit: ncipal Profile For eat Soil Group: cultivated at some	Grey clay			
Vegetation: Surface Coars	se Frag	<u>gments:</u>						
Profile Morph								
A11 0 - 0.1	m	 Dark brown (7.5YR3/2-Moist); Brown (7.5YR4/2-Dry); ; Light clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Fine, (-5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; 						
A12 0.1 - 0.	25 m	M Dark brown (7.5YR3/2-Moist); , N90, 0-2% , 0-5mm, Faint; Light medium clay; Weak grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; 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 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7 (pH meter); Few, very fine (0-1mm) roots;						
A13 0.25 - 0).55 m	 m Dark brown (7.5YR3/2-Moist); , 7.5YR62, 0-2%, 0-5mm, Distinct; , N90, 0-2%, 0-5mm, Faint; Light medium clay; Moderate grade of structure, 20-50 mm, Prismatic; 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; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2%), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2%), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; 						
B21k 0.55 - 1	1.1 m	 Dark reddish brown (5YR3/3-Moist); , 7.5YR74, 0-2% , 5-15mm, Prominent; , 7.5YR44, 0-2% , 0-5mm, Faint; Medium clay; Moderate grade of structure, 50-100 mm, Lenticular; Weak 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; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to - 						
B22 1.1 - 1.	8 m	 Brown (7.5YR4/4-Moist); , N20, 0-2% , 0-5mm, Prominent; Medium clay; Weak grade of structure, 100-200 mm, Prismatic; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately mois Very strong consistence; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Sharp, Smoot change to - 						
R 1.8 - 2.	6 m	Rock						
Morphologica	I Notes		all is at the second		nh fahria af avrilaa -			
A11		The granular structured tops soil. The gypsum is probabl by coarse gravel at approx	y cementing the w	hole A1.2 horizon.	A sharp contact marked			

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A12

andstone (parent rock). Prominent manganese stain at 120cm. Note surface gypsum: query aeolian. Soil retained.

Observation Notes

Parent Rock: residual, from sandstone, non-calcareous, sandstone Tertiary beds

Site Notes

Cracks might have been obscured by cattle. Sandstone intersected at approximately 2 meters. ?alluvium on sandstone.

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Laboratory Test Results:

Depth	рН	1:5 EC		changeabl			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.02	6.82A	0.045A	7.81B	3.93	1.07	0.08				
0 - 0.1	6.59A	0.101A	6.6B	3.9	1.13	0.17				
0.1 - 0.2	7.08A	0.053A	9B	4.14	0.47	0.24				
0.3 - 0.4	8.71A	<0.1A	13.87B	10.62	0.25	1.27				
0.7 - 0.8	9.33A	0.26A	9.55B	12.33	0.19	2.92				
1.2 - 1.3	7.21A	0.486A	7.44B	12.22	0.16	4.28				
2.5 - 2.6	5.1A	0.404A	6.74B	13.19	0.17	4.41				

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Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysis	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
							U					
0 - 0.02	<0.1B	1.2C									11.3	22.3
0 - 0.1	<0.1B	1.5C	40.7J								9.6	23.7
0.1 - 0.2	<0.1B	1.03C	8.5J								10.4	26.6
0.3 - 0.4	0.1B	0.47C	<1J								8.5	37.9
0.7 - 0.8	4.7B	0.28C	<1J								9.1	38.7
1.2 - 1.3	<0.1B	0.08C	5.5J								9.7	39.1
2.5 - 2.6	<0.1B	0.07C	3.9J								15.6	37.4

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3		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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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