Project Name:	BAGO-MARA	GLE FORES	T SOIL SU	IRVEY
Project Code:	BGM_FSS	Site ID:	0119	Observation ID:
Agency Name:	CSIRO Divisio	on of Soils (A	ACT)	

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Site Information

Desc. I Date D Map Ro Northin Easting	esc.: ef.: ng/Long.: g/Lat.:	N.J. N 06/05 Sheet 60522	AcKenzie /96 t No. : 8526 DGPS 206 AMG zone: 55 52 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Elevation:1185 metresRainfall:No DataRunoff:No Data					
<u>Geolo</u> Exposi Geol. F	ureType:	No Da Sgg	ata	Conf. Sub. Substrate I			Probab Granoo			
	ope Class: . Type: Type:	No D Lowe Hillslo 4 %	r-slope	Pattern Tyj Relief: Slope Cate Aspect:		No Data No Data No Data No Data				
Surfac	ce Soil Co	onditio	on (dry): Firm							
Erosic										
	lassificati	ion								
Acidic I			cation: andosol Medium Non-gravelly	Silty		ing Unit: pal Profile	Form:	N/A Um6.		
•	ery deep Confidence				Graat	Soil Group		N/A		
			data are available.		Great	Soli Group):	IN/A		
	,		effective disturbance other the	han grazing b	y hoofe	ed animals				
Veget	ation:									
<u>Surfac</u>	ce Coarse	Frag	ments:							
<u>Profile</u>	e Morphol	ogy								
01	0 - 0.02 n	n	Organic Layer; ;							
A1	0.02 - 0.1	16 m	6 m Dark reddish brown (5YR3/3-Moist); ; Silty clay loam; Moderate grade of structure, 5-10 mm Polyhedral; Rough-ped fabric; Moist; Weak consistence; Many cutans, >50% of ped faces of walls coated, faint; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2 roots; Few, medium (2-5mm) roots; Clear, Smooth change to -						•	
B21	0.16 - 0.4	14 m	Dark reddish brown (2.5YR3/4-Moist); Biological mixing, 2.5YR32, 2-10%, Distinct; Silty clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; 20-50 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Smooth change to -							
B22	0.44 - 0.7	77 m	Reddish brown (2.5YR4/4-M Weak grade of structure, 20 cutans, <10% of ped faces of 1mm) roots; Few, fine (1-2m Gradual, Smooth change to	0-50 mm, Poly or walls coate nm) roots; Fe	/hedral; ed, faint	; Earthy fab ;; Field pH 5	ric; Mois 5.5 (Rauj	t; Weak consistence; Few pach); Common, very fine	<i>∾</i> ∋ (0-	
B23	0.77 - 1.5	57 m	Red (2.5YR4/6-Moist); ; Silt fabric; Moderately moist; Fir faint; Field pH 5.5 (Raupach medium (2-5mm) roots; Abr	rm consistend n); Few, very	ce; Few fine (0-	cutans, <1 1mm) roots	0% of pe	ed faces or walls coated,	thy	
C1	1.57 - 2.3	32 m	Light yellowish brown (10YF moist; Very weak consistend						у	
C2	2.42 - 3.0)2 m	2 m Light yellowish brown (10YR6/4-Moist); Substrate influence, 10YR44, 20-50%, Faint; Sandy loam; Massive grade of structure; Moderately moist; Very weak consistence; Field pH 5.5 (Raupach);							
Morph	nological	Notes								
A1			Not a particularly dark or org worms.			0	ım) pore	s caused by stubby		
D01			Typical polyhodral structure	according to day	the work					

B21 Typical polyhedral structure associated with worm activity.

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B22	"Blind crickets" colony at 65 -75cm. Density increasing and pedality declining.						
B23	Relatively dense and earthy B23. Mica flakes evident in earthy matrix.						
C1	Very sharp contrast with solum. C horizons have abundant mafic minerals and sandy						
	texture.						
C2	Very similar to 5 but may be more mafic minerals.						

Observation Notes

Site is not far from outcropping granodiorite. Solum transition to C is very sharp. Snow gums and Mt. gums and cool elevated <u>Site Notes</u>

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Laboratory Test Results:

Depth	рН	1:5 EC		nangeable /Ig	e Cations K	E: Na	xchangeable Acidity	CEC	ECEC	ESP
m		dS/m		ng	n	Cmol (+)/				%
0 - 0.02										
0.02 - 0.16	4.2C		2.27H	1.16	0.79	0.07	4.78J 0K		9.07E	
0.16 - 0.44	4.11C		0.55H	0.85	0.65	0.03	4.33J 0K		6.42E	
0.44 - 0.77	3.98C		0.82H	0.67	0.54	0.08	4J 0K		6.11E	
0.77 - 1.57	3.96C		0.05H	0.39	0.61	0.07	4.45J 0K		5.57E	
1.57 - 2.32	4.13C		0.09H	0.09	0.27	0.04	1.06J 0K		1.55E	
2.42 - 3.02	4.13C		0.11H	0.08	0.15	0.04	1.01J 0K		1.4E	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	Size Analys FS Silt	
m	%	%	mg/kg	г %	%	%	Mg/m3	67 63	%	Giay

	/0	/0	iliy/ky	/0	/0	/0	wig/mo		/0	
0 - 0.02										
0.02 - 0.16		4.08B		446.4B	0.22A		1.03	9.65		
0.16 - 0.44		1.9B		376B	0.12A		1.06	4.84		
0.44 - 0.77		0.75B		379.8B	0.06A		1.09	0		
0.77 - 1.57		0.26B		297.2B	0.04A		1.38	4.92		
1.57 - 2.32		0.09B		282.4B	0.01A			6.43		
2.42 - 3.02		0.04B		240.4B	0.01A			7.54		

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

0 - 0.02 0.02 - 0.16 0.16 - 0.44 0.44 - 0.77 0.77 - 1.57 1.57 - 2.32 2.42 - 3.02

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Laboratory Analyses Completed for this profile

15_NR 15E1_AL 15E1_CA 15E1_H 15E1_K 15E1_MG 15E1_NA 2A1 4B2 6B2 7A2 9A3 P10_GRAV	Sum of Ex. cations + Ex. acidity - Not recorded Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Air-dry moisture content pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 Total organic carbon - high frequency induction furnace, volumetric Total nitrogen - semimicro Kjeldahl , automated colour Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Gravel (%)
P10_GRAV	Gravel (%)
P3A1	Bulk density - g/cm3