Project Name:	BAGO-MARA	GLE FORES	<b>F SOIL SUR</b>	/EY
Project Code:	BGM_FSS	Site ID:	0019	Observation ID:
Agency Name:	CSIRO Divisio	on of Soils (A	NCT)	

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# Site Information

Site Inform Desc. By: Date Desc.: Map Ref.: Northing/Lot Easting/Lat.: <u>Geology</u> ExposureTy Geol. Ref.:	N.J. N 18/12 Sheet ng.: 60258 : 62131	t No. : 8526 DGPS 331 AMG zone: 55 18 Datum: AGD66 sit	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Substrate M	ז ה F S Parent	1312 met No Data No Data Rapidly di <b>Mat.:</b>			
Land Form Rel/Slope Cl Morph. Type Elem. Type: Slope:	ass: No D	ata r-slope ope	Pattern Type: No Data   Relief: No Data   Slope Category: No Data   Aspect: 180 degree					
Surface So								
Erosion: Soil Classi		sheet erosion (sheet)						
Australian S	oil Classifie	ic Red Kandosol Medium Mod		Mapping Principa	g Unit: Il Profile	Form:	N/A Um6.13	
ASC Confid	• •		(	Great So	oil Group	):	N/A	
		data are available. effective disturbance. Natural	ı					
Vegetation			I					
		ments: 20-50%, cobbly, 60-	200mm, angu	ılar tabul	ar, Metar	norphic r	ock (unidentified)	
Profile Mor	phology							
01 0-0	0.04 m	Organic Layer; ;						
A11 0.04	4 - 0.13 m	Black (5YR2.5/1-Moist); ; Loam; Weak grade of structure, 5-10 mm, Granular; Rough-ped fabric; Moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, angular tabular, dispersed, Metamorphic rock (unidentified), coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Smooth change to						
A12 0.13	3 - 0.28 m	Black (5YR2.5/1-Moist); ; Loa fabric; Moist; Very weak cons Metamorphic rock (unidentific coated, distinct; Field pH 4.5 roots; Common, medium (2-5	sistence; 20-5 ed), coarse fra (Raupach); N	60%, cob agments /lany, ve	bly, 60-2 ; Many cu ry fine (0-	00mm, a utans, >5 1mm) ro	ngular tabular, dispersed, 0% of ped faces or walls ots; Common, fine (1-2m	, m)
A13 0.28	3 - 0.44 m	Dark brown (7.5YR3/2-Moist Moderate grade of structure, consistence; 20-50%, coarse (unidentified), coarse fragme Field pH 6 (Raupach); Comn medium (2-5mm) roots; Few	10-20 mm, P e gravelly, 20- ents; Common non, very fine	olyhedra 60mm, a cutans, (0-1mm)	al; Rough angular ta 10-50% ) roots; C	-ped fabr bular, dis of ped fa common,	ic; Moderately moist; Wea spersed, Metamorphic roc ces or walls coated, faint; fine (1-2mm) roots; Few,	ck
B21 0.44	4 - 0.72 m	Yellowish red (5YR4/6-Moist Rough-ped fabric; Moist; We tabular, dispersed, Metamorp of ped faces or walls coated Common, fine (1-2mm) roots Smooth change to -	ak consistenc phic rock (unio d, faint; Field p	ce; 20-50 dentified) oH 5 (Ra	)%, coars ), coarse lupach); (	e gravell fragmen Common,	y, 20-60mm, angular s; Common cutans, 10-5 very fine (0-1mm) roots;	0%
B22 0.72	2 - 1.09 m	Yellowish red (5YR5/6-Moist Massive grade of structure; E 60mm, angular tabular, dispe cutans, 10-50% of ped faces	Earthy fabric; ersed, Metam	Moist; W orphic ro	/eak cons ock (unide	sistence; entified),	20-50%, coarse gravelly, coarse fragments; Comm	
<u>Morpholog</u> A11	ical Notes	Very high organic matter.						

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A12 Very high organic matter.

A13Possibly either A3/A2 or B1. Very high biological activity and slightly more pale.B22Layer continues but couldn't be augered. 40 cm root channel on left side.

## **Observation Notes**

#### Site Notes

COMP 23H,6162-1,BRG 223, 200M FROM RD

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# Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca l	Иg	к	Na Cmol (⊦	Acidity ⊦)/kg			%
0 - 0.04										
0.04 - 0.13	3.82C		4.79H	1.2	1.14	0.08	7.92J 0K		15.13E	
0.13 - 0.28	4.15C		2.74H	0.59	0.81	0.05	4.98J 0K		9.16E	
0.28 - 0.44	4.27C		1.47H	0.57	0.69	0.05	3.41J 0K		6.18E	
0.44 - 0.72	4.12C		0.46H	0.5	0.49	0.05	2.43J 0K		3.93E	
0.72 - 1.09	3.99C		0.22H	0.34	0.38	0.01	2.96J 0K		3.9E	
_						_				
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	I Bulk Density	Particle GV CS		nalysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	-
0 - 0.04										
0.04 - 0.13		11.03B		448.4E		-		55.33		
0.13 - 0.28		7.47B		454.7E	-	-		52.97		
0.28 - 0.44		5.43B		330.1E				42.11		
0.44 - 0.72 0.72 - 1.09		1.86B 0.42B		228B 191.8E	0.0 3 0.0			43.51		
0.72 - 1.09		U.42D		191.05	5 0.0	2 <b>M</b>		35.11		

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	3			mm/h	mm/h

0 - 0.04
0.04 - 0.13
0.13 - 0.28
0.28 - 0.44
0.44 - 0.72
0.72 - 1.09

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## Laboratory Analyses Completed for this profile

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