Project Name:	BAGO-MARAG	<b>SLE FORES</b>	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0027	<b>Observation ID:</b>	1
Agency Name:	CSIRO Divisio	n of Soils (A	CT)		

## Site Information

Site Inf Desc. B	formation	<u>n</u> P. Rya	an	Locality:						
Date De		20/02		Elevation:	Elevation: 883 metres		es	3		
Map Re		Sheet No. : 8526 DGPS		Rainfall:		No Data				
Easting	g/Long.: /Lat.:	6025505 AMG zone: 55 613140 Datum: AGD66		Runoff: Drainage:		No Data Rapidly d	rained			
Geolog		0.0.		2.4		r tapialy a				
Exposu	reType:	No Da	ata	Conf. Sub.			Probab			
Geol. R		Dga		Substrate	Material	•	Granite			
Land F	orm pe Class:		oto	Dottorn Tu	201	No Doto				
Morph.		No Da Mid-s		Pattern Ty Relief:	pe:	No Data No Data				
Elem. T		Hillslo	ppe	Slope Cate	egory:	No Data				
Slope:		24 %		Aspect:		45 degre	es			
	e Soil Co	onditic	on (dry): Firm							
Erosio Soil Cl		ion								
	assificati							N1/A		
	ian Soil Cl		cation: d-Orthic Tenosol Medium Slig	htly		ng Unit: bal Profile	Form	N/A Gn2.31		
	Clay-loam			jiitiy	1 11101		i onn.	612.01		
	onfidence				Great	Soil Group	<b>)</b> :	Yellow podzolic soil		
			data are available.							
		<u>:e:</u> No	effective disturbance other the	han grazing t	by hoofe	d animals				
Vegeta Surfac		Frag	ments: 2-10% coarse drav	ally 20-60m	m subr	unded · 2	-10% cc	bbly, 60-200mm, angular tabular,		
	Morphol		<u>mento.</u> 2 1070, coarse grav	city, 20 00m	iiii, 300iC	Junucu, , 2	1070, 00	bbly, 00 200mm, angular tabular,		
01	0 - 0.02 r		Organic Layer; ;							
A1			<b>o j i</b> i	/2 Moist): Bi	مامعندما	miving 10	VD51 2	10% Distinct: Modium		
	0.02 - 0.12 m Dark greyish brown (10YR4/2-Moist); Biological mixing, 10YR54, 2-10%, Distinct; Medium sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Dry;						ocky; Rough-ped fabric; Dry;			
		Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, mediur						(1-2mm) roots; Few, medium		
			(2-5mm) roots; Common, coarse (>5mm) roots; Clear, Smooth change to -							
A21j	0.12 - 0.2	27 m	Yellowish brown (10YR5/4-M							
			10YR42, 10-20%, Distinct; Polyhedral; 10-20 mm, Suba							
								Few, medium (2-5mm) roots;		
		Common, coarse (>5mm) roots; Gradual, Irregular change to -								
A22e	0.27 - 0.4	42 m								
			Faint; Medium sandy clay; N							
			Subangular blocky; Rough-p (Raupach): Few. verv fine (					Few, medium (2-5mm) roots;		
			Common, coarse (>5mm) ro							
B21t	0.42 - 0.7	74 m	Yellowish red (5YR4/6-Mois	t): Substrate	influenc	e. 7.5YR5	4. 10-209	% , Faint; Light medium clay;		
			Weak grade of structure, 1	0-20 mm, Su	ubangula	r blocky; R	lough-pe	d fabric; Moderately moist;		
			Firm consistence; 2-10%, m cutans, <10% of ped faces of							
			roots; Few, fine (1-2mm) roots		, ,		(Naupa			
B22	0.74 - 1.2	27 m	Yellowish red (5YR5/8-Mois	t): · Modium	sandy c	- Iav: Massiv	vo grado	of structure: Earthy fabric:		
DZZ	0.74 - 1.2	27 111	Moist; Weak consistence; 20							
			Field pH 4.5 (Raupach); Fev							
B3	1.27 - 1.5	52 m	Strong brown (7.5YR5/6-Mo	ist); ; Sandv	loam; M	lassive gra	de of stru	ucture; Sandy (grains		
			prominent) fabric; Moderate	ly moist; Firn	n consist	tence; 20-5	50%, mea	dium gravelly, 6-20mm,		
			subrounded, coarse fragme	nts; ⊢ield pH	i 4.5 (Ra	upacn); Cl	ear chan	ge to -		
Morph A21i	ological	Notes	Concentration of large horizo	ontal tree roo	te					

A21j

Concentration of large horizontal tree roots.

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A22e As for layer two.

B21t Mottle consists of material similar to layer three. A2 horizon encroaching into B2 horizon.

### **Observation Notes**

Ordovician gravel exists upslope.

#### Site Notes

COMP 38H,6643-1,87D,100M FR HAIRPIN

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# Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca I	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.02										
0.02 - 0.12	5.17C		9.1H	0.85	0.41	0.01	0.11J 0K		10.47E	
0.12 - 0.27	4.82C		2.84H	0.48	0.4	0.01	0.38J 0K		4.11E	
0.27 - 0.42	4.77C		2.08H	1.04	0.61	0	0.23J 0K		3.96E	
0.42 - 0.74	3.92C		0.18H	0.52	0.71	0.03	2.07J 0K		3.51E	
0.74 - 1.27	3.94C		0.42H	0.43	0.31	0	1.85J 0K		3.02E	
1.27 - 1.52	3.87C		ОH	0.12	0.27	0	1.91J 0K		2.3E	
Depth	CaCO3	Organic	Avail.	Total	Total			Particle		alysis
m	%	С %	P mg/kg	P %	N %	K %		GV CS	FS S %	Silt Clay
0 - 0.02										
0.02 - 0.12		3.82B		136.6E	3 0.1	4A	0.95	22.13		
0.12 - 0.27		1.43B		82B	0.0	6A	1.24	20.29		
0.27 - 0.42		0.54B		61.9B	0.0	ЗA	1.30	25.05		
0.42 - 0.74		0.21B		47.7B			1.41	17.59		
0.74 - 1.27		0.82B		71.3B			1.39	23.88		
1.27 - 1.52		0.05B		15B	0.	A		11.64		

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 - 0.02 0.02 - 0.12 0.12 - 0.27 0.27 - 0.42 0.42 - 0.74 0.74 - 1.27 1.27 - 1.52

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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