Project Name:	BAGO-MARAG	<b>GLE FORES</b>	<b>SOIL SURVE</b>	(
Project Code:	BGM_FSS	Site ID:	0071	Observation ID:
Agency Name:	CSIRO Divisio	n of Soils (A	NCT)	

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## Site Information

Desc. I Date D Map Re Northin Eastin Geolo Expos Geol. F	esc.: ef.: ng/Long.: g/Lat.: <u>eqV</u> ureType: Ref.:	P. Ryan 21/02/96 Sheet No. : 8526 DGPS 6021638 AMG zone: 55 612891 Datum: AGD66 Soil pit Dga	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pare Substrate Materia						
Morph Elem. Slope:	ope Class: . Type: Type:	No Data Upper-slope Hillslope 15 % <b>ndition (dry):</b> Firm	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data 135 degrees					
Erosic									
	lassificati	on							
Austra Bleach	lian Soil Cl ed Mesotrop	assification: bhic Brown Kurosol Thin Moderate ay-loamy Deep		ng Unit: pal Profile Form:	N/A Db3.31				
ASC C	Confidence		Great	Soil Group:	Brown podzolic soil				
	•	lytical data are available. e: No effective disturbance. Natu	ral						
Veget		e. No enective disturbance. Natu	iai						
Surfac	ce Coarse	Fragments: 20-50%, fine grave	elly, 2-6mm, subangu	lar, Quartz					
	e Morphol								
O1	0 - 0.05 n	n Organic Layer; ;							
A1	0.05 - 0.0	(grains prominent) fabric; [	Dry; Loose consistence Field pH 4 (Raupach)	e; 20-50%, fine gra	ade of structure; Sandy velly, 2-6mm, subangular, le (0-1mm) roots; Few, fine (1-				
A21j	0.09 - 0.1	grade of structure; Sandy ( gravelly, 2-6mm, subangul	Brown (10YR4/3-Moist); Very pale brown (10YR7/4-Dry); ; Loamy coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Clear, Smooth change to -						
A22	0.18 - 0.3	Weak grade of structure, 5 consistence; 20-50%, fine	i-10 mm, Subangular gravelly, 2-6mm, sub fine (0-1mm) roots; C	blocky; Rough-ped angular, Quartz, co Common, fine (1-2m	arse fragments; Field pH 4 nm) roots; Common, medium				
B1t	0.39 - 0.5	, , , , , , , , , , , , , , , , , , ,	ture, 5-10 mm, Angula , medium gravelly, 6-2 upach); Common, ver	ar blocky; Rough-pe 20mm, subangular, y fine (0-1mm) roots	ed fabric; Moderately moist; Adamellite, coarse				
B21t	0.56 - 0.7	grade of structure, 5-10 m consistence; 2-10%, mediu	nm, Angular blocky; R um gravelly, 6-20mm, ew, very fine (0-1mm)	ough-ped fabric; M subangular, Adam					
B22t	0.71 - 1.1	Angular blocky; Rough-peo	d fabric; Moderately m	noist; Firm consister	rade of structure, 10-20 mm, nce; 20-50%, coarse gravelly, (Raupach); Few, very fine (0-				
<u>Morph</u> A1	nological l	<u>Notes</u> Coarse quartz gravel domir	nates next 3 lavers inc	ticating a colluvial o	nrigin				
		Coarse quartz graver donni	atos non o layers int	accurry a control of	ingin.				

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A21j as for layer 1.

A22 As for layer 1 and 2.

B1tQuartz gravel decreases and clay increases.B22tLarge in situ boulders in pit.

## **Observation Notes**

#### Site Notes

COMP 41H, 12409-1,198DEG,770M FROM 69

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## Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeabl Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	••	9			(+)/kg			%
0 - 0.05 0.05 - 0.09	3.82C		9.71H	1.91	0.59	0.04	1.62J		16.88E	
0.09 - 0.18	4.12C		2.7H	0.59	0.44	0.03	3.01K 1.95J 0K		5.71E	
0.18 - 0.39	3.99C		0.33H	0.22	0.19	0.04	1.74J 0K		2.52E	
0.39 - 0.56	4.12C		0.37H	0.27	0.32	0.03	1.73J 0K		2.72E	
0.56 - 0.71 0.71 - 1.15	4.29C 4.18C		0.39H	0.97	0.67	0.04	1.41J 0K		3.48E	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysi	s
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV CS	FS %	Silt	Clay
0 - 0.05											
0.05 - 0.09		10.19B		290.1B	0.37A		1.00	60.72			
0.09 - 0.18		2.44B		147.9B	0.11A		1.15	57.57			
0.18 - 0.39		1.31B		107.5B	0.05A		1.29	44.65			
0.39 - 0.56		0.74B		89.3B	0.03A		1.27	40.08			
0.56 - 0.71		0.63B		88.7B	0.03A		1.45	47			
0.71 - 1.15		0.36B		106.1B	0.02A			39.13			

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 - 0.05
0.05 - 0.09
0.09 - 0.18
0.18 - 0.39
0.39 - 0.56
0.56 - 0.71
0.71 - 1.15

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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 (Ca2+,Mg2+,Na+,K+) 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 (%)
•••••	1 1 1 <i>1 1</i>