Project Name:	BAGO-MARAG	LE FORES	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0040	Observation ID:	1
Agency Name:	CSIRO Divisio	n of Soils (A	CT)		

Site Information

Desc. B Date De Map Re Northin Easting <u>Geolog</u> Exposu Geol. R <u>Land F</u>	esc.: f.: g/Long.: //Lat.: //Lat.: irreType: ef.: <u>Form</u>	P. Ry 16/12 Sheet 60312 61552 Soil p Os	/95 t No. : 8526 DGPS 283 AMG zone: 55 21 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. Substrate I		: Schist	le	
Morph. Elem. T Slope:	ype:	No Data Upper-slope Hillslope 23 %		Pattern Ty Relief: Slope Cate Aspect:	Relief: No Data Slope Category: No Data			
	e Soil Co	onditio	on (dry): Firm					
<u>Erosio</u> Soil Cl	<u>n:</u> assificati	ion						
No Avai		s Meso	cation: htrophic Red Dermosol Thin S ey Very deep	lightly		ng Unit: oal Profile Form:	N/A Gn4.11	
ASC Co All nece Site Di	onfidence essary ana sturbanc	: lytical	data are available.) effective disturbance. Natura	al	Great	Soil Group:	No suitable group	
Vegeta Surfac		Erag	ments: 2-10%, coarse grav	(ally 20 60m	-	lar tabular Sabiat		
	Morphol		ments. 2-10%, coarse grav	/elly, 20-0011	m, angu	iai labulai, Schist		
01	0 - 0.01 n		Organic Layer; ;					
A1	0.01 - 0.0)9 m	Dark reddish brown (5YR2.5/2-Moist); ; Silty clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular tabular, Schist, coarse fragments; Field pH 5 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -					
A3	0.09 - 0.1	6 m	Dark reddish brown (5YR3/2-Moist); Biological mixing, 5YR44, 10-20%, Distinct; Silty clay loam; Strong grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded platy, Schist, coarse fragments; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Smooth change to -					
B21	0.16 - 0.3	38 m	Yellowish red (5YR4/6-Mois grade of structure, 2-5 mm, consistence; 2-10%, mediun Field pH 5 (Raupach); Few, 5mm) roots; Few, coarse (>	Polyhedral; m gravelly, 6- very fine (0-	5-10 mm -20mm, 1mm) ro	n, Polyhedral; Roug subangular tabular pots; Few, fine (1-2	h-ped fabric; Moist; Weak , Schist, coarse fragments; mm) roots; Few, medium (2-	
B22	0.38 - 0.5	58 m		dral; Rough-p tabular, Schi H 5 (Raupach	bed fabri st, coars n); Few,	c; Moist; Firm cons e fragments; Few very fine (0-1mm)		
B23	0.58 - 0.8	31 m	Red (2.5YR4/6-Moist); ; Lig Rough-ped fabric; Moist; W tabular, Schist, coarse fragr pH 5 (Raupach); Few, very	eak consister nents; Few c	nce; 20- utans, <	50%, medium grav 10% of ped faces (elly, 6-20mm, subangular or walls coated, faint; Field	
B31	0.81 - 1.1	1 m	Red (2.5YR4/6-Moist); ; Cla consistence; 20-50%, coars Field pH 4.5 (Raupach); Cle	e gravelly, 20	D-60mm		thy fabric; Moist; Weak ar, Schist, coarse fragments;	

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B32 1.11 - 1.61 m Reddish yellow (7.5YR6/8-Moist); ; Fine sandy loam; Earthy fabric; Moderately moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, angular tabular, Schist, coarse fragments; Field pH 7 (Raupach);

Morphological Notes

B23 Gravel content increases in this layer and next. Possible colluvial origin.

B32 Weathering in situ substrate.

Observation Notes

Site Notes

COMP 19H,3185-1,105DEG,100M FROM ROAD

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Laboratory Test Results:

Depth	рН	1:5 EC			le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	ĸ	Cmol				%
0 - 0.01										
0.01 - 0.09	4.82C		11.08H	1.55	0.89	0.02	0.56J 0K		14.1E	
0.09 - 0.16	4.68C		5.12H	0.95	0.66	0.01	0.9J 0K		7.65E	
0.16 - 0.38	4.59C		4.06H	0.81	0.52	0	0.85J 0K		6.24E	
0.38 - 0.58	4.67C		4.38H	0.76	0.71	0.03	0.42J 0K		6.29E	
0.58 - 0.81	4.78C		4H	0.68	0.63	0	0.18J 0K		5.49E	
0.81 - 1.11	4.83C		3.01H	0.6	0.6	0	0.14J 0K		4.36E	
1.11 - 1.61	5.08C		1.09H	0.25	0.21	0	0.04J 0K		1.59E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		ticle Size CS FS	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	%	
0 - 0.01										
0.01 - 0.09		5.67B		562.3B	0.26A		0.99	44.98		
0.09 - 0.16		2.56B		374.5B	0.12A		1.31	37.18		
0.16 - 0.38		1.18B		271.1B	0.07A		1.35	40.81		
0.38 - 0.58		0.62B		229B	0.05A		1.17	48.22		
0.58 - 0.81		0.37B		195B	0.03A		1.22	43.3		
0.81 - 1.11		0.21B		198.6B	0.02A			40.18		
1.11 - 1.61		0.06B		68.5B	0.01A			17.55		
Depth	COLE		Grav	imetric/Volu	metric Wat	er Conte	nts		K sat	K unsat
		Sat.	0.05 Bar			l Bar	5 Bar 1	5 Bar		
m				g/g -	- m3/m3				mm/h	mm/h
0 0 01										
0 - 0.01										

0.01 - 0.09 0.09 - 0.16 0.16 - 0.38 0.38 - 0.58

0.38 - 0.38 0.58 - 0.81 0.81 - 1.11 1.11 - 1.61

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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	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 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
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10_GRAV	Gravel (%)
P3A1	Bulk density - g/cm3