Project Name:	BAGO-MARAG	LE FORES	SOIL SURVEY	,	
Project Code:	BGM_FSS	Site ID:	0054	<b>Observation ID:</b>	1
Agency Name:	CSIRO Divisior	n of Soils (A	CT)		

#### **Site Information**

Desc. Date D Map R Northi Eastin	Desc.: lef.: ing/Long.: ig/Lat.:	N.J. M 10/01/ Sheet 60257	/IcKenzie /96 : No. : 8526 DGPS 725 AMG zone: 55 26 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:		1051 metr No Data No Data Well drain			
<u>Geolo</u> Expos Geol. I	sureType:	No Da DGA	ata	Conf. Sub. Substrate I			Probab Adamel		
	ope Class: n. Type: Type:	No Da Crest Hillcre 2 %		Pattern Ty Relief: Slope Cate Aspect:		No Data No Data No Data No Data			
<u>Surfa</u>	<u>ce Soil Co</u>	onditic	on (dry): Firm	•					
Erosi	on:								
Soil C	Classificati	ion							
Haplic		Red Kar	ndosol Thin Moderately grave	elly		ng Unit: bal Profile	Form:	N/A Um5.52	
•	oamy Clay-lo <b>Confidence</b>	•	ery deep		Great	Soil Group		N/A	
			data are available.		erour	oon oroup			
Site D	Disturbanc	:e:							
	tation:	_				-			
	<u>ce Coarse</u> 20-50%, fine		ments: 20-50%, fine gravel	ly, 2-6mm, s	ubangula	ar, Quartz;	20-50%	, medium gravelly, 6-20mm, subangu	ılar,
Quartz,	20-5076, 111	C	gravelly, 2-6mm, su	ıbangular,					
Profil	e Morphol	loav							
A1	0 - 0.04 n		Weak grade of structure, 20 fabric; Moist; Weak consiste coarse fragments; 2-10%, fii 20%, fine gravelly, 2-6mm, s	-50 mm, Poly ence; 10-20% ne gravelly, 2 subangular ta	yhedral; 5, fine gr 2-6mm, s abular, d	5-10 mm, 0 avelly, 2-6r subangular ispersed, 0	Granular nm, suba , dispers Coal, coa	angular, dispersed, Quartz, ed, coarse fragments; 10-	
B21	0.04 - 0.2	25 m	Reddish brown (5YR4/4-Mo grade of structure, 20-50 mr moist; Weak consistence; 2- fragments; 2-10%, fine grav <10% of ped faces or walls roots; Few, fine (1-2mm) roo Smooth change to -	n, Polyhedra -10%, fine gr elly, 2-6mm, coated, faint;	l; 5-10 n avelly, 2 subangu ; Field pł	hm, Granul -6mm, sub ular, disper H 5.5 (Raup	ar; Roug angular, sed, coa bach); C	h-ped fabric; Moderately dispersed, Quartz, coarse irse fragments; Few cutans,	
B22	0.25 - 0.4	46 m	Yellowish red (5YR5/6-Mois grade of structure, 20-50 mr consistence; 2-10%, fine gra 10%, fine gravelly, 2-6mm, s faces or walls coated, faint; (1-2mm) roots; Few, mediur	n, Polyhedra avelly, 2-6m subangular, o Field pH 5 (F	l; Rough n, suban disperse Raupach	n-ped fabric gular, disp d, coarse fr ); Common	; Modera ersed, Q agments , very fir	ately moist; Very weak uartz, coarse fragments; 2- s; Few cutans, <10% of ped ne (0-1mm) roots; Few, fine	
C11	0.46 - 1.5	5 m	Reddish yellow (7.5YR6/8-M fabric; Moist; Very weak cor Quartz, coarse fragments; 1 fragments; Few cutans, <10 very fine (0-1mm) roots; Cle	nsistence; 10 0-20%, fine % of ped fac	-20%, fir gravelly, es or wa	ne gravelly, 2-6mm, su alls coated,	2-6mm, bangula	r, dispersed, coarse	
C12	15-2m		Brownish vellow (10YR6/6-N	Moist): Subst	rata influ	ianca 10V	266 20-	50% Distinct: Medium	

Brownish yellow (10YR6/6-Moist); Substrate influence, 10YR66, 20-50%, Distinct; Medium C12 1.5 - 2 m sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 10-20%, dispersed, Quartz, coarse fragments; 10-20%, dispersed, coarse fragments; Field pH 5.5 (Raupach);

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- C21 2 2.4 m Brownish yellow (10YR6/8-Moist); Substrate influence, 10YR86, 20-50%, Distinct; Clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; 10-20%, dispersed, Quartz, coarse fragments; 10-20%, dispersed, coarse fragments; Field pH 5.5 (Raupach);
- C22 2.4 3 m Very pale brown (10YR8/4-Moist); Substrate influence, 10YR68, 20-50%, Distinct; Medium sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Field pH 5.5 (Raupach);

# Morphological Notes

1	Abundant charcoal	and coarse	fragments.	Very thin A1.
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- B21 Fungal mats present or more like spheroids.
- C11 Much yellower C than transportational sites. Relatively whole coloured.
- C12 Colours are bands inherited from parent material or due to Fe migration.

#### **Observation Notes**

Gentle crest. 1st residual site. Shallow solum with deep C despite adjac.outcrops. Concentration of coarse fragments on surface and A1 due to ants.

#### Site Notes

COMP 42H,6225-1,BRG 124,120M FR CK APX

Project Name: Project Code: Agency Name: BAGO-MARAGLE FOREST SOIL SURVEY BGM\_FSS Site ID: 0054 CSIRO Division of Soils (ACT) Observation ID: 1

## Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Wig	ĸ		(+)/kg			%
0 - 0.04	3.78C		1.67H	0.52	0.37	0.01	5.04J 0K		7.61E	
0.04 - 0.25	4.21C		0H	0.06	0.39	0	0.6J 0K		1.05E	
0.25 - 0.46			0H	0.37	0.52	0	2.34J 0K		3.23E	
0.46 - 1.5	4.04C		0H	0.16	0.45	0.01	1.58J 0K		2.2E	
1.5 - 2	3.99C		0H	0.13	0.21	0	1.95J 0K		2.28E	
2 - 2.4	4.01C		ОH	0.11	0.11	0	1.53J 0K		1.75E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Densitv	Pa GV	rticle CS	Size FS	Analysi: Silt	s Clay
m	%	%	г mg/kg	г %	%	к %	Mg/m3	Gv	03	гз %	Siit	Cidy
0 - 0.04		6.88B		190.9B	0.15A		1.01	37.49				
0.04 - 0.25		0.1B		131.1B	0.01A		1.21	32.15				
0.25 - 0.46		0.86B		132.5B	0.03A		1.29	31.63				
0.46 - 1.5		0.12B		73.2B	0.01A		1.36	32.87				
1.5 - 2		0.07B		53.5B	0A			30.18				
2 - 2.4		0.1B		82.1B	0A			30.23				
Depth	COLE	•	Gravi	metric/Volu		er Conter	nts	_	Ks	at	K unsa	t

	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 - 0.04 0.04 - 0.25 0.25 - 0.46 0.25 - 0.46 0.46 - 1.5 1.5 - 2 2 - 2.4

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### Laboratory Analyses Completed for this profile

15E1_HExchangeable H - by compulsive exchange, no pretreatment for soluble sali15E1_KExchangeable bases, CEC and AEC by compulsive exchange, no pretreatm15E1_MGExchangeable bases, CEC and AEC by compulsive exchange, no pretreatm15E1_NAExchangeable bases, CEC and AEC by compulsive exchange, no pretreatm2A1Air-dry moisture content4B2pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A16B2Total organic carbon - high frequency induction furnace, volumetric7A2Total organic carbon - high frequency induction furnace, volumetric7A3Total Phosphorus (ppm) - semimicro kjeldahl, automated colour9A3Total Phosphorus (ppm) - sedigraphP10_S_0.480.48 micron (cumulative %) - SedigraphP10_S_111 micron (cumulative %) - SedigraphP10_S_125125 micron (cumulative %) - SedigraphP10_S_222 micron (cumulative %) - SedigraphP10_S_2320 micron (cumulative %) - SedigraphP10_S_250250 micron (cumulative %) - SedigraphP10_S_31.231.2 micron (cumulative %) - SedigraphP10_S_31.231.2 micron (cumulative %) - SedigraphP10_S_5353 micron (cumulative %) - SedigraphP10_S_5353 micron (cumulative %) - SedigraphP10_S_6363 micron (cumulative %) - Sedigraph	