Project Name:	BAGO-MARAGL	E FOREST	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0111	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CT)		

Site Information

Desc. Date D Map R Northin Eastin <u>Geolo</u>	esc.: ef.: ng/Long.: g/Lat.:	P. Ry 24/04 Sheet 60564	P. Ryan 24/04/96 Sheet No. : 8526 DGPS 6056441 AMG zone: 55 609971 Datum: AGD66		Locality: Elevation: 1127 metres Rainfall: No Data Runoff: No Data Drainage: Well drained Conf. Sub. is Parent. Mat.: Proba			٩
Geol. F		Sgg		Substrate I			Granod	
Morph Elem. Slope: <u>Surfa</u>	ope Class: . Type: Type: ce Soil Co	No Data Lower-slope Footslope 5 % ndition (dry): Firm		Pattern Ty Relief: Slope Cate Aspect:		No Data No Data No Data 45 degree	Data Data	
	on: Stable Slassificati		or (sheet)					
Austra Acidic	lian Soil Cl	assifi	cation: rmosol Thin Non-gravelly Clay	v-loamy		ng Unit: bal Profile	Form:	N/A Uf6.12
ASC C	Confidence		data ang ang Yabia		Great S	Soil Group	:	No suitable group
			data are available. • effective disturbance other th	nan arazina k	ov hoofe	d animals		
Veget	ation:			0 0				
<u>Surfa</u> tabular,		Frag	ments: 20-50%, fine gravel	y, 2-6mm, s	ubangula	ar tabular, (Coal; 20-	-50%, fine gravelly, 2-6mm, angular
	e Morphol	ogy						
O1	0 - 0.05 n	n	Organic Layer; ;					
AB	0.05 - 0.1	2 m	Dark reddish brown (5YR3/3-Moist); Mechanical, 5YR46, 20-50%, Distinct; Clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular tabular, Coal, coarse fragments; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Gradual, Wavy change to -					
B1	0.12 - 0.2	22 m	Dark reddish brown (5YR3/4-Moist); Biological mixing, 5YR32, 2-10%, Distinct; Silty clay; Moderate grade of structure, 10-20 mm, Subangular blocky; 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular tabular, Coal, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Diffuse, Wavy change to -					
B21	0.22 - 0.5	0.5 m Dark red (2.5YR3/6-Moist); Biological mixing, 5YR2.52, 2-10%, Distinct; Silty clay; Moderate grade of structure, 10-20 mm, Subangular blocky; 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Diffuse, Smooth change to -						
B22	0.5 - 0.79) m	Red (2.5YR4/6-Moist); Biological mixing, 5YR32, 0-2% , Distinct; Silty clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Diffuse, Smooth change to -					
B23	0.79 - 1.1	m	Red (2.5YR4/6-Moist); ; Silty clay; 2-10%, medium gravelly, 6-20mm, subrounded, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded tabular, Quartz, coarse fragments; Field pH 4 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to -					
<u>Morph</u> AB	nological I	Notes	Very little OM mechanical mi	xing with B h	norizon. (Charcoal a	nd fungi	indicate hot fire.
B21			Large number of roots.					

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	BGM_FSS	BGM_FSS Site ID:	BGM_FSS Site ID: 0111	

B22 Very few roots.

B23 Auger hit rock at base of layer. Prescence of quartz pebbles may mean these have been deposited. Large roots reappear.

Observation Notes

Lower slope below basalt flow site has been burnt in the last 10 yrs. Very little A hor. so possible post fire erosion although few signs exist. Possible old river terrace.

Site Notes

16H 5547-1 240M FR CK/RD 80M 329D FR R

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable		Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol (·	Acidity +)/kg			%
0 - 0.05										
0.05 - 0.12	4.12C		2.68H	0.58	0.47	0.07	1.68J 0K		5.48E	
0.12 - 0.22	4.07C		1.22H	0.62	1.05	0.11	6.2J 0K		9.21E	
0.22 - 0.5	3.98C		0.2H	0.56	0.86	0.06	6.34J 0K		8.02E	
0.5 - 0.79	3.97C		0.01H	0.5	0.81	0.11	6.18J 0K		7.62E	
0.79 - 1.1	3.99C		ОH	0.6	0.74	0.11	5.98J 0K		7.44E	
Donth	CaCO3	Ormonia	A	Tetel	Tatal	Tota	al Bulk	Der	ticle Size	Analysia
Depth	Cacos	Organic C	Avail. P	Total P	Total N	K	Density	GV	CS FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.05										
0.05 - 0.12		11.63B		601.2E		-	0.71	23.77		
0.12 - 0.22		4.03B		848.2E	-	-	0.96	11.66		
0.22 - 0.5		1.81B		583.3E	-		0.98	6.35		
0.5 - 0.79		0.65B		412.6E			1.13	0		
0.79 - 1.1		0.36B		404.3E	3 0.0	3A		8.32		
Depth	COLE			/imetric/Vo					K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 13	5 Bar 15	Bar	mm/h	mm/h

0 - 0.05 0.05 - 0.12 0.12 - 0.22 0.22 - 0.5 0.5 - 0.79 0.79 - 1.1

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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	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 H - 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
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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 (%)
P3A1	Bulk density - g/cm3