Project Name:	BAGO-MARA	GLE FORES	T SOIL SU	RVEY	
Project Code:	BGM_FSS	Site ID:	0034	Observation ID:	•
Agency Name:	CSIRO Divisio	on of Soils (A	ACT)		

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### Site Information

Desc. Date D Map R Northi Eastin	esc.: ef.: ng/Long.: g/Lat.:	<u>n</u> P. Ryan 23/11/95 Sheet No. : 8526 DGPS 6034104 AMG zone: 55 617384 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	1267 metres No Data No Data Well drained				
<u>Geolo</u> Expos Geol. I	ureType:	Soil pit Os	Conf. Sub. is Pare Substrate Materia		Probable Sandstone			
Morph Elem. Slope:	ope Class: . Type: Type:	Upper-slope Hillslope 8 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data 315 degrees				
		ondition (dry): Firm						
Erosic Soil C	on: Classificati	ion						
<b>Austra</b> Acidic	I <b>lian Soil Cl</b> Magnesic R	lassification: ted Kandosol Medium Slightly grav derately deep		Mapping Unit: N/A Principal Profile Form: Uf6.71				
	Confidence	• •	Great	Soil Group:	Red earth			
		<ul><li>lytical data are available.</li><li>e: No effective disturbance. Natu</li></ul>	rol					
	ation:	.e. no enective disturbance. Natu	Iai					
Surfa	ce Coarse	Fragments: 0-2%, coarse grav	elly, 20-60mm, subar	ngular tabular, Sano	dstone			
	e Morphol							
01	0 - 0.03 n	<b>o j</b> <i>i i</i>	(1 Maint), Light alow	Maaaiya grada of	atructure, Forthy fobries Moist			
Ар	0.03 - 0.1	Weak consistence; 2-10% fragments; Field pH 5 (Ra	Dark reddish brown (5YR3/4-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subrounded tabular, Sandstone, coarse fragments; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Sharp, Smooth change to -					
A1b	0.18 - 0.3	blocky; 2-5 mm, Polyhedra gravelly, 6-20mm, angular subrounded tabular, Sand 1mm) roots; Few, fine (1-2	Dark reddish brown (5YR3/2-Moist); ; Clay Ioam; Moderate grade of structure, 5-10 mm, Angular blocky; 2-5 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; 2-10%, coarse gravelly, 20-60mm, subrounded tabular, Sandstone, coarse fragments; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -					
B1b	0.31 - 0.4	Moderate grade of structu fabric; Moist; Weak consis Sandstone, coarse fragme	Dark reddish brown (5YR3/4-Moist); Biological mixing, 5YR32, 20-50%, Faint; Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded tabular, Sandstone, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Gradual, Wavy change to -					
B2b	0.48 - 0.6	structure; Earthy fabric; M subrounded tabular, Sand	Dark red (2.5YR3/6-Moist); Biological mixing, 5YR32, 0-2% , Faint; Light clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, subrounded tabular, Sandstone, coarse fragments; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual, Irregular change to -					
BCb	0.69 - 0.8	consistence; 20-50%, coa	Red (2.5YR4/6-Moist); ; Fine sandy clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 20-50%, coarse gravelly, 20-60mm, subangular tabular, Sandstone, coarse fragments; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Irregular change to -					
-	hological l							
Ар		Soil material of B horizon of surface active erosion. Cau			ting soil. No obvious			
A1b		Buried A horizon.						

# **Observation Notes**

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM\_FSSSite ID:0034Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Area was logged 30-40 years ago. Recent regrowth indicates a second logging episode. <u>Site Notes</u>

COMP 9H,2261-1,348D,50M FROM LOG. RD

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## Laboratory Test Results:

Depth	рН	1:5 EC			e Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca I	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.03										
0.03 - 0.18	3.97C		0.01H	0.29	0.54	0	4J 0K		4.85E	
0.18 - 0.31	4.08C		0.03H	0.29	0.7	0	3.6J 0K		4.63E	
0.31 - 0.48	4.08C		ОH	0.23	0.58	0	2.87J		3.68E	
0.48 - 0.69	4.07C		ОH	0.24	0.33	0	0K 2.18J		2.75E	
0.00 0.00	4 000		011	0.04	0.00	0	0K		0 705	
0.69 - 0.88	4.02C		0H	0.24	0.26	0	2.29J 0K		2.79E	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tot K			ticle Size CS FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	,		%	• •,
0 - 0.03										
0.03 - 0.18		2.76B		299.5E	-		0.95	20.27		
0.18 - 0.31		3.29B		350.6E	-		1.15	28.22		
0.31 - 0.48 0.48 - 0.69		1.63B 0.9B		279.8E 244.9E			1.30 1.11	26.82 32.43		
0.69 - 0.88		0.9B 0.53B		244.9L 248.5E			1.24	26.4		
	<b>0 0 1 5</b>		-							
Depth	COLE	Sat.		imetric/Vo 0.1 Bar	olumetric V 0.5 Bar	Vater Co 1 Bar		Bar	K sat	K unsat
m		<b>J</b> ai.	0.05 Bai		/g - m3/m		5 Bai 15	Dai	mm/h	mm/h

m 0 - 0.03 0.03 - 0.18 0.18 - 0.31 0.31 - 0.48 0.48 - 0.69 0.69 - 0.88

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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