BAGO-MARAGLE FOREST SOIL SURVEY Project Name:

Project Code: BGM FSS Site ID: 0078 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

P. Ryan Locality:

Desc. By: Date Desc.: Elevation: 22/11/95 No Data Sheet No.: 8526 DGPS Map Ref.: Rainfall: No Data Northing/Long.: 6030735 AMG zone: 55 Runoff: No Data Easting/Lat.: 616391 Datum: AGD66 Drainage: Well drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: **Substrate Material:** No Data Os

Land Form

Rel/Slope Class: No Data Pattern Type: No Data Morph. Type: Elem. Type: Mid-slope Relief: No Data Hillslope **Slope Category:** No Data 315 degrees Slope: 13 % Aspect:

Surface Soil Condition (dry): Loose

Erosion: Partial, Minor (sheet)

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Acidic Magnesic Red Dermosol Medium Non-gravelly Clayey **Principal Profile Form:** Uf6.12

Clayey Very deep

ASC Confidence: Great Soil Group: No suitable group

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm, subangular tabular, Schist; 0-2%, cobbly, 60-200mm, angular platy, Schist

_					
Pro	tile	Mo	rph	Old	oav

01	0 - 0.02 m	Organic Layer; ;
A1	0.02 - 0.13 m	Dark reddish brown (5YR2.5/2-Moist); Biological mixing, 5YR33, 2-10%, Faint; Light clay; Strong grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Wavy change
A3	0.13 - 0.27 m	Dark reddish brown (5YR3/3-Moist); Biological mixing, 5YR2.52, 20-50%, Faint; Light clay; Strong grade of structure, 5-10 mm, Polyhedral; 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, subangular tabular, Schist, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Gradual, Smooth change to -
B1	0.27 - 0.42 m	Dark reddish brown (5YR3/4-Moist); Biological mixing, 5YR2.52, 10-20%, Distinct; Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Gradual, Smooth change to -
B21	0.42 - 0.72 m	Red (2.5YR4/6-Moist); Biological mixing, 5YR32, 2-10%, Distinct; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B22	0.72 - 1.22 m	Red (2.5YR4/6-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, very fine (0-1mm) roots;
B22	1.22 - 1.82 m	Red (2.5YR4/6-Moist); ; Light medium clay; 0-2%, fine gravelly, 2-6mm, angular tabular, Quartz, coarse fragments; Field pH 5 (Raupach);
B23	1.82 - 2.32 m	Dark reddish brown (5YR3/4-Moist); ; Light medium clay; 0-2%, fine gravelly, 2-6mm, subangular tabular, Schist, coarse fragments; Field pH 4.5 (Raupach);
B23	2.32 - 2.67 m	Dark reddish brown (5YR3/4-Moist); ; Light medium clay; 0-2%, fine gravelly, 2-6mm, subangular tabular, Schist, coarse fragments; Field pH 4.5 (Raupach);

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 $\label{lem:control_problem} Dark\ reddish\ brown\ (2.5YR3/4-Moist);\ ;\ Medium\ clay;\ 0-2\%,\ fine\ gravelly,\ 2-6mm,\ subangular\ tabular,\ Schist,\ coarse\ fragments;\ Field\ pH\ 4.5\ (Raupach);$ 2.67 - 3.02 m

Morphological Notes

Colour darkens from above layer. B23

ВЗ Colour hues becomes redder. Auger ceased at 3m.

Observation Notes

Site Notes

COMP 17H,2944-1,BRG 102DEG,150M FR RD

Project Name: BAGO-MARAGLE FOREST SOI Project Code: BGM_FSS Site ID: 007 Agency Name: CSIRO Division of Soils (ACT) **BAGO-MARAGLE FOREST SOIL SURVEY**

BGM_FSS Site ID: 0078 Observation ID: 1

Laboratory	rest Re	esuits:								
Depth	рН	1:5 EC			e Cations		Exchangeable	CEC	ECEC	ESP
		dS/m	Ca I	Иg	K	Na Cmol (+	Acidity			%
m		u5/III				Cinoi (+	F)/Kg			70
0 - 0.02										
0.02 - 0.13	4.25C		4.68H	1.95	1.2	0.05	5.29J		13.17	=
0.02 00	00					0.00	0K			_
0.13 - 0.27	4.23C		1.7H	1.47	0.98	0.04	3.12J		7.31E	
							0K			
0.27 - 0.42	4.1C		0.86H	1.04	0.81	0.03	3.38J		6.11E	
0.40 0.70	2.000		0.4411	0.50	0.00	0.02	0K 4.29J		5.86E	
0.42 - 0.72	3.96C		0.14H	0.59	0.83	0.02	4.29J 0K		5.865	1
0.72 - 1.22	3.93C		0H	0.52	0.63	0.01	4.28J		5.44E	:
02	0.000		.	0.02	0.00	0.0.	0K		02	
1.22 - 1.82	3.9C		0H	0.28	0.47	0.02	4.47J		5.24E	
							0K			
1.82 - 2.32	3.94C		0H	0.15	0.45	0.01	3.99J		4.59E	
2.32 - 2.67	3.94C		0H	0.15	0.61	0.03	0K 4.25J		5.03E	
2.32 - 2.07	3.940		UП	0.15	0.61	0.03	4.25J 0K		5.03	=
2.67 - 3.02	3.87C		0H	0.2	0.53	0.01	5.24J		5.99E	:
2.07 0.02	0.010		011	0.2	0.00	0.01	0K		0.002	•
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	l Bulk	Partic	olo Sizo	Analysis
Бериі	Cacco	C	P Avaii.	P	N	K	Density		S FS	Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	· · · · · · · · · · · · · · · · · · ·
0 - 0.02										
0.02 - 0.13		8.06B		600.4E	-		0.75	36.17		
0.13 - 0.27		2.78B		500.9E	-	-	1.13	46.51		
0.27 - 0.42 0.42 - 0.72		1.76B 0.96B		461.1E 421.4E		-	0.96 1.08	29.83 28.56		
0.42 - 0.72		0.96B 0.29B		386.6E			1.18	35.55		
1.22 - 1.82		0.23B		322.3E			1.10	31.72		
1.82 - 2.32		0.41B		247B				31.91		
2.32 - 2.67		0.55B		239.8E	3 0.0	4A		37.05		
2.67 - 3.02		0.45B		262.9E	3 0.0	4A		38.38		
Depth	COLE		Grav	imetric/V	olumetric \	Water Con	ntents		K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar	_	_
m				g	/g - m3/m	13			mm/h	mm/h

^{0 - 0.02}

^{0.02 - 0.13}

^{0.13 - 0.27} 0.27 - 0.42 0.42 - 0.72

^{0.42 - 0.72} 0.72 - 1.22 1.22 - 1.82 1.82 - 2.32 2.32 - 2.67 2.67 - 3.02

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Laboratory Analyses Completed for this profile

15_NR Sum of Ex. cations + Ex. acidity - Not recorded

15E1_AL 15E1_CA 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 15E1_H

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_K 15E1_MG Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_NA Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Air-dry moisture content 2A1

pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 4B2 6B2 Total organic carbon - high frequency induction furnace, volumetric

7A2

Total nitrogen - semimicro Kjeldahl , automated colour Total Phosphorus (ppm) - semimicro kjeldahl, automated colour 9A3

P10_GRAV Gravel (%)

P3A1 Bulk density - g/cm3