

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0165 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	06/05/97	Elevation:	No Data
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6030795 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	617215 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	Os	Substrate Material:	Schist

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	31 %	Aspect:	270 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Mesotrophic Red Dermosol Medium Moderately gravelly Clay-loamy Clayey Moderately deep	Principal Profile Form:	Um6.33
ASC Confidence:	Great Soil Group:	No suitable group

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, subangular tabular, ; 10-20%, coarse gravelly, 20-60mm, subangular tabular,

Profile Morphology

O1	0 - 0.04 m	Organic Layer; ;
A1	0.04 - 0.21 m	(7.5YR2.5/1-Moist); Biological mixing, 7.5YR32, 2-10% , Faint; Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, coarse fragments; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Wavy change to -
B1	0.21 - 0.34 m	Dark reddish brown (5YR3/3-Moist); Biological mixing, 5YR2.52, 2-10% , Faint; Light clay; Strong grade of structure, 5-10 mm, Polyhedral; 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, coarse fragments; 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; Few, medium (2-5mm) roots; Gradual, Wavy change to -
B2	0.34 - 0.64 m	Dark red (2.5YR3/6-Moist); Biological mixing, 5YR2.52, 2-10% , Distinct; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, subangular, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Gradual, Irregular change to -
BC	0.64 - 0.89 m	Red (2.5YR4/6-Moist); Biological mixing, 7.5YR2.52, 0-2% , Distinct; Clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Weak consistence; 50-90%, medium gravelly, 6-20mm, subangular, coarse fragments; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

A1 Colluvial gravel.

B1 Colluvial gravel.

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B2 One infilled root channel.

BC Increase in insitu gravel.

Observation Notes

Site Notes

WARNIPERS RD, COMP 14 GROWTH PLOT A

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.04										
0.04 - 0.21	3.94C		15.03H	2.74	1.3	0.03	0.89J 0K		19.99E	
0.21 - 0.34	5.09C		7.15H	1.58	0.66	0	0.65J 0K		10.03E	
0.34 - 0.64	5.05C		1.44H	1.29	0.55	0	2.18J 0K		5.45E	
0.64 - 0.89	4.06C		0.13H	0.71	0.75	0	4.31J 0K		5.91E	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04												
0.04 - 0.21		8.54B		609.6B	0.31A		0.85	33.08				
0.21 - 0.34		3.25B		378.5B	0.15A		1.20	15.55				
0.34 - 0.64		1.2B		284B	0.07A		1.16	18.28				
0.64 - 0.89		0.44B		284.6B	0.04A			33.57				

[illegible]

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_H	Exchangeable H - by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
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
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