

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0028 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	20/02/96	Elevation:	1079 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6027076 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	612372 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	Sgg	Substrate Material:	Sandstone

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	12 %	Aspect:	90 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Magnesic Red Dermosol Medium Slightly gravelly Clay-loamy Clayey Moderately deep		Principal Profile Form:	Gn4.11
ASC Confidence:		Great Soil Group:	No suitable group
All necessary analytical data are available.			

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments:

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ;
A1	0.02 - 0.15 m	Dark reddish brown (5YR3/2-Moist); Biological mixing, 5YR31, 2-10% , Faint; Clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Sandstone, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Abrupt, Wavy change to -
B21	0.15 - 0.35 m	Yellowish red (5YR4/6-Moist); Biological mixing, 5YR32, 2-10% , Faint; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Sandstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Irregular change to -
B22	0.35 - 0.62 m	Red (2.5YR4/6-Moist); ; Clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Sandstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Gradual, Irregular change to -
BC	0.62 - 0.96 m	Red (2.5YR4/6-Moist); ; Medium sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; 20-50%, coarse gravelly, 20-60mm, subrounded tabular, Sandstone, coarse fragments; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual, Irregular change to -

Morphological Notes

A1	Large root channel.
B21	Another large root channel.
BC	Marked increase in CF's above substrate.

Observation Notes

PM ordovician seds. instead of adamellite

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COMP 31H,77638-2, 249D,750M FROM RD-CK

Site Notes

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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 - 0.02										
0.02 - 0.15	4.06C		3.77H	1.39	0.82	0.03	3.63J 0K		9.64E	
0.15 - 0.35	3.84C		0.11H	0.55	0.8	0.02	4.13J 0K		5.6E	
0.35 - 0.62	3.92C		0H	0.51	0.85	0.03	2.75J 0K		4.15E	
0.62 - 0.96	4.02C		0H	0.17	0.4	0.01	1.13J 0K		1.71E	

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 - 0.02												
0.02 - 0.15		5.58B		381.2B	0.19A		0.93	28.77				
0.15 - 0.35		1.92B		265.5B	0.07A		1.33	29.53				
0.35 - 0.62		0.73B		235.9B	0.03A		1.36	24.5				
0.62 - 0.96		0.27B		224.3B	0.01A			33.53				

[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