

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0057 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	20/02/96	Elevation:	1181 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6027359 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	615098 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	Dga	Substrate Material:	Adamellite

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:	19 %	Aspect:	225 degrees

Surface Soil Condition (dry): Loose

Erosion: Partial, Minor (sheet)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Acidic Dystrophic Brown Dermosol Medium Slightly gravelly Loamy Clayey Very deep	Principal Profile Form:	Gn4.8
ASC Confidence:	Great Soil Group:	Red podzolic soil
All necessary analytical data are available.		

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm, subrounded tabular, Adamellite; 2-10%, cobbly, 60-200mm, subangular, Adamellite; 2-10%,
fine gravelly, 2-6mm, subangular tabular, Coal

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ;
A1	0.02 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy loam; Single grain grade of structure; Earthy fabric; Dry; Loose consistence; 2-10%, coarse gravelly, 20-60mm, subrounded, Adamellite, coarse fragments; Field pH 5 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear, Wavy change to -
A2	0.15 - 0.29 m	Brown (10YR4/3-Moist); Pale brown (10YR6/3-Dry); Biological mixing, 10YR32, 10-20% , Distinct; Coarse sandy clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Gradual, Irregular change to -
B21t	0.29 - 0.56 m	Strong brown (7.5YR4/6-Moist); Biological mixing, 10YR32, 2-10% , Distinct; Coarse sandy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Adamellite, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Common, coarse (>5mm) roots; Diffuse, Irregular change to -
B22	0.56 - 1.27 m	Yellowish red (5YR5/8-Moist); ; Clay loam, sandy; Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subrounded, Adamellite, coarse fragments; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse change to -
B3	1.27 - 1.67 m	Strong brown (7.5YR5/8-Moist); ; Coarse sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, subangular, Adamellite, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 4.5 (Raupach); Gradual change to -

Morphological Notes

A1	Coarse textile indicates colluvial origin.
B21t	Concentration of tree roots.

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Pit adjacent to large tors. Depth highly variable.

Site Notes

COMP 38H,3703-1,180DEG,1000M FROM ROAD

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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	4.29C		9.83H	1.32	0.49	0	0.86J 1.08K		13.58E	
0.15 - 0.29	4.13C		1.31H	0.37	0.39	0	2.2J 0K		4.26E	
0.29 - 0.56	3.98C		0.72H	0.52	0.6	0.01	3.01J 0K		4.85E	
0.56 - 1.27	3.9C		0H	0.12	0.82	0.04	3.58J 0K		4.55E	
1.27 - 1.67	4.12C		0H	0.04	0.76	0.03	1.17J 0K		2E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS	Silt Clay
0 - 0.02											
0.02 - 0.15		7.59B		229.3B	0.25A		0.90	43.99			
0.15 - 0.29		2.13B		127.4B	0.07A		1.31	42.89			
0.29 - 0.56		1.14B		147B	0.05A		1.35	28.88			
0.56 - 1.27		0.49B		161B	0.03A		1.16	26.28			
1.27 - 1.67		0.11B		97.4B	0A			24.73			

[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