

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0137 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Ryan	Locality:	
Date Desc.:	20/05/96	Elevation:	498 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6060103 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	613458 Datum: AGD66	Drainage:	Rapidly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
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:	Hillcrest	Slope Category:	No Data
Slope:	22 %	Aspect:	0 degrees

Surface Soil Condition (dry): Firm

Erosion: Partial, Minor (sheet)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Acidic Dystrophic Brown Dermosol Thin Gravelly Clay-loamy Clayey Shallow	Principal Profile Form:	Db1.11
ASC Confidence:	Great Soil Group:	Brown earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, subangular platy, Schist; 2-10%, medium gravelly, 6-20mm, subangular platy, Schist; 2-10%, fine gravelly, 2-6mm, angular tabular, Coal

Profile Morphology

O1	0 - 0.02 m	Organic Layer; ;
A1	0.02 - 0.05 m	Brown (7.5YR4/3-Moist); Pale brown (10YR6/3-Dry); ; Medium sandy clay loam; Weak grade of structure, <2 mm, Granular; Rough-ped fabric; Moderately moist; Loose consistence; 10-20%, fine gravelly, 2-6mm, subangular platy, Schist, coarse fragments; Field pH 4.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Few, medium (2-5mm) roots; Abrupt, Smooth change to -
B21	0.05 - 0.2 m	Brown (7.5YR4/4-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular tabular, Schist, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Irregular change to -
B22	0.2 - 0.46 m	Strong brown (7.5YR5/6-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular tabular, Schist, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Irregular change to -

Morphological Notes

A1	Thin horizon with a mixture of A1 and A2 material.
B21	Possible colluvial layer above in situ material.

B22 Gravel content increases but not sufficient to be a B/C horizon.

Observation Notes

Evidence of recent fire event <10yrs.

Site Notes

COMP 121H 213D 370M 11225-1 FROM TRACK

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.02										
0.02 - 0.05	3.52C		1.32H	0.71	0.53	0.12	3.4J 1.79K		7.86E	
0.05 - 0.2	4.09C		0.1H	0.4	0.4	0.06	1.75J 0K		2.71E	
0.2 - 0.46	4.14C		0.15H	0.49	0.39	0.06	1.32J 0K		2.41E	

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 - 0.05		6.56B		165.8B	0.17A		0.96	23.34				
0.05 - 0.2		1.39B		149.1B	0.07A		1.13	23.59				
0.2 - 0.46		0.74B		129.6B	0.05A			25.98				

[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