

**Project Name:** BAGO-MARAGLE FOREST SOIL SURVEY  
**Project Code:** BGM\_FSS **Site ID:** 0087 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	N.J. McKenzie	<b>Locality:</b>	
<b>Date Desc.:</b>	13/03/96	<b>Elevation:</b>	1175 metres
<b>Map Ref.:</b>	Sheet No. : 8526 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6046810 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	614346 Datum: AGD66	<b>Drainage:</b>	Rapidly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	Probable
<b>Geol. Ref.:</b>	TB	<b>Substrate Material:</b>	Basalt

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Crest	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Firm

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Red Ferrosol Medium Very gravelly Clay-loamy Clay-loamy Moderately deep	<b>Principal Profile Form:</b>	Um6.23

**ASC Confidence:**

All necessary analytical data are available.

**Great Soil Group:** N/A

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

O1	0 - 0.02 m	Organic Layer; ;
A1	0.02 - 0.15 m	Dark reddish brown (5YR2.5/2-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Granular; Rough-ped fabric; Dry; Firm consistence; 50-90%, medium gravelly, 6-20mm, angular tabular, stratified, Basalt, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -
B2	0.15 - 0.52 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam; Weak grade of structure, 10-20 mm, Polyhedral; 2-5 mm, Granular; Moderately moist; Very weak consistence; 50-90%, coarse gravelly, 20-60mm, angular tabular, stratified, Basalt, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Sharp, Irregular change to -

**Morphological Notes**

A1	Very granular pedality and abundant casts.
B2	Earthy red B2/1 with abundant rocks - some cracks of soil may penetrate to >0.50m.

**Observation Notes**

Residual site on crest. Very shallow and rocky. Very tall trees indicate water extraction from >0.5m in rock fissures.

**Site Notes**

COMP 119H, BRG181 850M FR BM086,4366-1

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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 - 0.15	4.8C		15.61H	2.8	1.29	0.05	2.18J 0K		21.93E	
0.15 - 0.52	4.65C		4.58H	2.48	1.36	0.04	2.19J 0K		10.65E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02												
0.02 - 0.15		9.06B		4290.3B	0.28A		0.75	37.48				
0.15 - 0.52		2.28B		3099.1B	0.1A		0.93	28.33				

[illegible]

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**Laboratory Analyses Completed for this profile**

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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