

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0154 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: P. Ryan	Locality:
Date Desc.: 08/04/97	Elevation: 1183 metres
Map Ref.: Sheet No. : 8526 DGPS	Rainfall: No Data
Northing/Long.: 6049615 AMG zone: 55	Runoff: No Data
Easting/Lat.: 605163 Datum: AGD66	Drainage: Poorly drained

Geology

ExposureType: Undisturbed soil core	Conf. Sub. is Parent. Mat.: Probable
Geol. Ref.: Sgg	Substrate Material: Granodiorite

Land Form

Rel/Slope Class: No Data	Pattern Type: No Data
Morph. Type: Crest	Relief: No Data
Elem. Type: Hillcrest	Slope Category: No Data
Slope: 1 %	Aspect: 0 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Humose-Acidic Tenosolic Redoxic Hydrosol Medium Non-gravelly Silty Silty Deep	Principal Profile Form: Gn2.24
ASC Confidence:	Great Soil Group: Wiesenboden
All necessary analytical data are available.	

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments:

Profile Morphology

O1	0 - 0.04 m	Organic Layer; ;
A11	0.04 - 0.21 m	Black (10YR2/1-Moist); ; Loam (Sapric); Strong grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Angular blocky; Rough-ped fabric; Moderately moist; Weak consistence; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -
A12	0.21 - 0.33 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam (Sapric); Moderate grade of structure, 2-5 mm, Polyhedral; <2 mm, Granular; Rough-ped fabric; Moist; Weak consistence; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Clear change to -
A21	0.33 - 0.47 m	Dark greyish brown (2.5Y4/3-Moist); ; Silty clay loam; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moist; Weak consistence; Few cutans, <10% of ped faces or walls coated; Field pH 4 (Raupach); Few, very fine (0-1mm) roots; Gradual change to -
A22	0.47 - 0.71 m	Light olive brown (2.5Y5/4-Moist); ; Silty clay; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Wet; Firm consistence; Few cutans, <10% of ped faces or walls coated; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to -
B2	0.71 - 1.04 m	Yellowish brown (10YR5/6-Moist); Substrate influence, 2.5Y64, 20-50% , Faint; Silty clay loam; Massive grade of structure; Earthy fabric; Wet; Weak consistence; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Diffuse change to -
C1	1.04 - 1.49 m	Light grey (2.5Y7/1-Moist); Substrate influence, 2.5Y56, 10-20% , Faint; Coarse sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Firm consistence; Field pH 4.5 (Raupach); Diffuse change to -
C1	1.49 - 2.84 m	White (2.5Y8/1-Moist); ; Loamy coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; Field pH 5 (Raupach);

Morphological Notes

A11	Organic horizon / peat
A22	Pale A2 horizon with silt and clay content.
B2	Abrupt change to mottled clay. Muscovite mica increases and texture is granodiorite based.
C1	Weathering granodiorite with some mottles.

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C1 Weathering granodiorite.

Observation Notes

Open grassy flat/frost hollow. Adjacent to brumby wallow.

Site Notes

BULONGRA RD, 300M E OF TRIANGLE BEND

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Laboratory Test Results:

[illegible]

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
								GV	CS		Silt	Clay
0 - 0.04												
0.04 - 0.21		11.24B		1268.8B	0.47A		0.61	4.12				
0.21 - 0.33		4.68B		687B	0.36A		1.13	3.39				
0.33 - 0.47		2.14B		338.5B	0.18A		1.02	21.9				
0.47 - 0.71		0.76B		219.6B	0.09A		1.04	36.93				
0.71 - 1.04		0.21B		257.7B	0.02A		1.11	12.55				
1.04 - 1.49		0.06B		99.4B	0.01A			5.06				
1.49 - 2.84								7.65				

[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