

**Project Name:** BAGO-MARAGLE ESM  
**Project Code:** BGM\_ESM      **Site ID:** 1027      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	P. Ryan	<b>Locality:</b>	
<b>Date Desc.:</b>	06/04/95	<b>Elevation:</b>	1236 metres
<b>Map Ref.:</b>	Sheet No. : 8526 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6046488 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	601207 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>	SGGH	<b>Substrate Material:</b>	Granodiorite

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	21 %	<b>Aspect:</b>	135 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Acidic Dystrophic Red Kandosol Medium Slightly gravelly Clay-loamy Clayey Very deep		<b>Principal Profile Form:</b>	Gn2.11
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red earth
All necessary analytical data are available.			

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:**

**Surface Coarse Fragments:** 2-10%, cobbly, 60-200mm, subangular, Granodiorite

**Profile Morphology**

O1	0 - 0.03 m	Organic Layer; ;
A1	0.03 - 0.17 m	Dark brown (7.5YR3/2-Moist); ; Fine sandy clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; 100-200 mm, Lenticular; Rough-ped fabric; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Granodiorite, coarse fragments; Field pH 5.5 (pH meter); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Abrupt, Wavy change to -
AB	0.17 - 0.28 m	Dark reddish brown (5YR3/2-Moist); Biological mixing, 5YR44, 10-20% , Distinct; Medium sandy clay; Moderate grade of structure, 2-5 mm, Polyhedral; 100-200 mm, Prismatic; Rough-ped fabric; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Granodiorite, coarse fragments; Field pH 5.5 (pH meter); Common, very fine (0-1mm) roots; Clear, Irregular change to -
B1	0.28 - 0.39 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); Biological mixing, 2-10% , Distinct; Medium sandy clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subrounded, dispersed, Granodiorite, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Broken change to -
B2	0.39 - 1.13 m	Red (2.5YR4/6-Moist); Substrate influence, 2-10% , Faint; Coarse sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subrounded tabular, dispersed, Granodiorite, coarse fragments; Field pH 5 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear change to -
BC	1.13 - 1.53 m	Brown (7.5YR4/4-Moist); Substrate influence, 2-10% , Faint; Clayey coarse sand; Field pH 6 (pH meter); Clear change to -
C	1.53 - 1.78 m	Dark yellowish brown (10YR4/4-Moist); ; Clayey coarse sand; Field pH 6 (pH meter);

**Morphological Notes**

B1	This pale horizon is discontinuous.
B2	Colour hue varies within layer indicating variable weathering.

**Observation Notes**

**Project Name:** BAGO-MARAGLE ESM  
**Project Code:** BGM\_ESM      **Site ID:** 1027  
**Agency Name:** CSIRO Division of Soils (ACT)

**Observation ID:** 1

**Site Notes**

PGP15, BAGO S.F. COMPT 81

PGP centre peg 6m south east of pit. Down slope of PGP is drainage line. Upslope of pit is tor-field. Dry ash site with TSI.

Gravel includes F.G., foliated granodiorite.

**Observation ID: 1**

[illegible]

**Project Name:** BAGO-MARAGLE ESM  
**Project Code:** BGM\_ESM      **Site ID:** 1027      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**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
4A1	pH of 1:5 soil/water suspension
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