Project Name:	BAGO-MARAGL	E FOREST	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0157	Observation ID:	1
Agency Name:	CSIRO Division				

Site Information

Desc. E Date De Map Re Northin Easting Geolog	esc.: of.: og/Long.: o/Lat.:	P. Ry 08/04 Shee 60420 60492	/97 t No. : 8526 DGPS 066 AMG zone: 55 23 Datum: AGD66	Rainfall: Runoff: Drainage:	Elevation:1121 metresRainfall:No DataRunoff:No DataDrainage:No Data					
Geol. R		Undis TB	sturbed soil core	Conf. Sub Substrate			No Data Tuff	а		
Morph. Elem. T Slope:	pe Class: Type:	Lowe Foots 2 %	er-slope slope	Pattern Ty Relief: Slope Cate Aspect:	•	No Data				
Erosio										
Austral Acidic D	ian Soil Cl	lassifi	cation: Dermosol Thin Non-gravelly	Clayey		ing Unit: ipal Profile	Form:	N/A Uf6.31		
All nece	•	lytical	data are available. o effective disturbance. Natura	al	Great	Soil Grou	0:	Chocolate soil		
<u>Vegeta</u> Surfac	<u>ation:</u> e Coarse	Frag	ments:							
Profile	Morphol		Organia Lavar							
A1	0.01 - 0.0		Organic Layer; ; Dark brown (7.5YR3/2-Moist); ; Silty clay; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Dry; Weak consistence; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Abrupt change to -							
B21	0.04 - 0.2	24 m	Dark reddish brown (5YR3/3-Moist); ; Silty clay; Strong grade of structure, 2-5 mm, Polyhedral; 5- 10 mm, Polyhedral; Smooth-ped fabric; Dry; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1- 2mm) roots; Clear change to -							
B22	0.24 - 0.6	3 m	Strong brown (7.5YR4/6-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear change to -							
B23	0.6 - 0.74	4 m	Yellowish brown (10YR5/6-Moist); ; Silty clay; Strong grade of structure, 5-10 mm, Polyhedral; 2- 5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -							
2B31	0.74 - 1.1	11 m	Dark yellowish brown (10YR4/6-Moist); Substrate influence, 2.5Y52, 20-50%, Faint; Substrate influence, 5YR46, 2-10%, Distinct; Silty clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Moderately moist; Very firm consistence; 20-50%, medium gravelly, 6 20mm, subangular, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Manganiferous, Very coarse (20 - 60 mm), Veins, weak, segregations;Field pH 4.5 (Raupach); Clear change to -							
2B32	1.11 - 2.3	36 m	Dark yellowish brown (10YF clay loam; Massive grade o 20%, medium gravelly, 6-20 Coarse (6 - 20 mm), Soft se change to -	f structure; E)mm, subang	arthy fa gular, co	bric; Mode barse fragm	rately mo ents; Fev	bist; Firm consistence; 10- w (2 - 10 %), Manganiferous,		

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY Project Code: Agency Name: Observation ID: 1 BGM_FSS Site ID: 0157 CSIRO Division of Soils (ACT)

2C11	2.36 - 3.14 m	Brown (7.5YR4/3-Moist); Substrate influence, 7.5YR56, 10-20%, Distinct; Substrate influence, 5G61, 2-10%, Distinct; Clay Ioam; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, Tuff, coarse fragments; Common (10 - 20%), Manganiferous, Coarse (6 - 20 mm), Soft segregations; Common (10 - 20%), Manganiferous, Coarse (6 - 20 mm), Veins; Field pH 4 (Raupach); Diffuse change to -
2C12	3.14 - 4.09 m	Dark reddish brown (5YR3/2-Moist); Substrate influence, 7.5YR56, 10-20%, Distinct; Substrate influence, 10YR76, 2-10%, Distinct; Clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 20-50%, coarse gravelly, 20-60mm, Tuff, coarse fragments; Common (10 - 20%), Manganiferous, Coarse (6 - 20 mm), Soft segregations; Common (10 - 20%), Manganiferous, Coarse (6 - 20 mm), Veins; Field pH 4.5 (Raupach); Clear change to -
2C2	4.09 - 4.51 m	 Grey (5Y5/1-Moist); Substrate influence, 7.5YR56, 2-10%, Distinct; Clay loam; Massive grade of structure; Earthy fabric; Moist; Firm consistence; Common (10 - 20%), Manganiferous, Medium (2 -6 mm), Soft segregations; Common (10 - 20%), Manganiferous, Medium (2 -6 mm), Veins; Field pH 4.5 (Raupach);
Morph	ological Notes	3
2B31		Possible change of parent material to fine grained tuff. Appearance of prominent Mn segregations.
2B32		Tuffacious rock fragments moderately weathered separated by very pale mottles.
2C11		Pale mottle disappears. Weathered tuff is dark chocolate brown with Mn segregations fragments of slightly weathered tuff appear as bluey-grey mottles.
2C12		Dark chocolate weathered tuff predominates.
~ ~ ~		

2C12 2C2 Less weathered tuff fragmented with orange weathering sufaces.

Observation Notes

Broad flat area nth. of Burra rd. Basalt outcropping north and south of McCabes Gully.

Site Notes

BURRA RD, 1KM EAST OF BM56, N OF RD

Project Name:	BAGO-MARAGL	E FOREST	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0157	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CT)		

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeabl	e Cations K	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	ĸ	Na Cmol	Acidity (+)/kg			%
0 - 0.01										
0.01 - 0.04	4.48C		12.19H	4	1.5	0	3.26J 0K		20.96E	
0.04 - 0.24	4.29C		1.06H	0.72	0.46	0	3.57J 0K		5.8E	
0.24 - 0.6	4.04C		0.39H	0.97	0.79	0	11.82J 0K		13.97E	
0.6 - 0.74	4.05C		0.24H	1.16	0.55	0	9.44J 0K		11.39E	
0.74 - 1.11	4.03C		0.06H	1.55	0.12	0.12	10.92J 0K		12.76E	
1.11 - 2.36	3.97C		1.69H	4.05	0.16	0.11	17.9J 0K		23.91E	
2.36 - 3.14	4C		2.32H	4.05	0.2	0.03	13.44J 0K		20.04E	
3.14 - 4.09	4.15C		2.39H	3.18	0.42	0.03	6.56J 0K		12.58E	
4.09 - 4.51	4.11C		6.66H	8.16	0.75	0.11	16.04J 0K		31.72E	

Depth	CaCO3	Organic	Avail.	Total	Total	Total Bulk				Size	Analysi	
m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.01												
0.01 - 0.04		9.96B		2115.4B	0.33A		0.89	17.41				
0.04 - 0.24		2.57B		1789.1B	0.14A		1.06	29.41				
0.24 - 0.6		1.54B		2060.9B	0.1A		0.93	25.6				
0.6 - 0.74		0.73B		1700.2B	0.05A			26.43				
0.74 - 1.11		0.09B		3187.3B	0.01A			0.59				
1.11 - 2.36		0.27B		2540.1B	0.02A			32.1				
2.36 - 3.14		0.06B		1580.9B	0A			9.93				
3.14 - 4.09		0.06B		7573.7B	0.01A			10.73				
4.09 - 4.51		0.05B		3311.7B	0A			40.7				
Depth	COLE		Grav	imetric/Volu	metric Wate	er Conte	ents		Ks	at	K unsa	t
		Sat.	0.05 Bar			Bar	5 Bar 15	Bar				
m				g/g -	m3/m3				mm	/h	mm/h	

 $\begin{array}{c} 0 - 0.01 \\ 0.01 - 0.04 \\ 0.04 - 0.24 \\ 0.24 - 0.6 \\ 0.6 - 0.74 \\ 0.74 - 1.11 \\ 1.11 - 2.36 \\ 2.36 - 3.14 \\ 3.14 - 4.09 \\ 4.09 - 4.51 \end{array}$

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0157Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Laboratory Analyses Completed for this profile