Project Name:	BAGO-MARAGL	E FOREST	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0153	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CT)		

Site Information

Desc. E Date De Map Re Northir Easting	esc.: ef.: ng/Long.: g/Lat.:	P. Ry 07/04 Shee 6040		Locality: Elevation: Rainfall: Runoff: Drainage:	bn: 1161 metres I: No Data No Data			ed		
<u>Geolo</u> Exposi Geol. R	ireType:	Undis Tb	sturbed soil core	Conf. Sub. Substrate			No Dat Granoc			
Morph. Elem. 1 Slope:	pe Class: Type: Type:	1 %	y flat	Pattern Ty Relief: Slope Cate Aspect:		No Data				
Surface Soil Condition (dry): Firm Erosion:										
	lassificati	ion								
Melacio	i an Soil Cl Kandosolio Clayey Ver	c Redo	oxic Hydrosol Very thick Non-	gravelly		ng Unit: pal Profile	Form:	N/A Gn2.81		
ASC C	onfidence	:			Great	Soil Group):	Wiesenboden		
	,		data are available. a effective disturbance. Natura	al						
Vegeta Surfac	ation: e Coarse	Fran	ments:							
	Morphol									
01	0 - 0.04 n		Organic Layer; ;							
A11	0.04 - 0.2	27 m	N Very dark grey (10YR3/1-Moist); ; Silty clay loam (Sapric); Moderate grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Moist; Weak consistence; Field pH 4 (Raupach); Many, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Clear change to -							
A12	0.27 - 0.5	54 m	grade of structure, 5-10 mr	n, Ángular b	locky; R	ough-ped fa	abric; Mo	%, Faint; Silty clay; Moderate bist; Weak consistence; Field mm) roots; Gradual change to		
A13	0.54 - 0.8	36 m	Wery dark grey (2.5Y3/1-Moist); Substrate influence, 10YR34, 2-10%, Faint; Silty clay; Moderate grade of structure, 5-10 mm, Subangular blocky; 2-5 mm, Polyhedral; Smooth-ped fabric; Moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Root linings; Field pH 4 (Raupach); Common, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Clear change to -							
B1	0.86 - 1.1	l2 m	Dark grey (2.5Y4/1-Moist); ; Firm consistence; Very few (Raupach); Common, very f	(0 - 2 %), Fe	erruginou	ıs, Fine (0 -	2 mm),			
B21	1.12 - 1.5	57 m	Grey (2.5Y6/1-Moist); Substrate influence, 10YR56, 2-10%, Faint; Light medium clay; Massive grade of structure; Earthy fabric; Wet; Firm consistence; Common (10 - 20%), Ferruginous, Medium (2 -6 mm), Root linings; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Abrupt change to -							
B22	1.57 - 1.7	75 m		re, 10-20 mn faces or walls	n, Prism s coated	atic; Smoot I, faint; Few	h-ped fa (2 - 10	bric; Wet; Firm consistence; %), Ferruginous, Fine (0 - 2		
B23	1.75 - 1.8	38 m		fabric; Wet;				; Light clay; Massive grade of 6 (Raupach); Few, very fine		

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B31	1.88 - 2.36 m	Yellowish brown (10YR5/8-Moist); Substrate influence, 2.5Y52, 0-2% , Faint; Clay loam; Massive grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Moist; Firm consistence; Field pH 6 (Raupach); Clear change to -
2C1	2.36 - 2.46 m	; Clayey coarse sand; Massive grade of structure, 5-10 mm; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Field pH 7.5 (Raupach); Abrupt change to -
2C2	2.46 - 3.29 m	; Loamy coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Field pH 8.5 (Raupach);
<u>Morph</u> A11	nological Note	es Humic rich horizon.
A12		Less OM
A13		Increasing Fe root stains
B1		Still OM rich but more clay.
B21		Abrupt change to pale B2 horizon.
B22 B23		Increased sand mica is common with Fe stained root channels. More rock like fabric
B31 2C1 2C2		Increased Fe - colouring Loose granodiorite grus - strongly ferruginised. Granodiorite grus - less red.

Observation Notes

Adjacent to drainage line draining east into McPherson's Plain proper. Site is west of boundary fence. Cattle puddling of surface would normally be saturated.

Site Notes

MCPHERSON'S PLAIN-WESTERN POWERLINE RD

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	wg	n	Cmol				%
0 - 0.04 0.04 - 0.27	3.86C		0.93H	0.92	0.12	0	6.28J		8.25E	
0.04 - 0.27	5.000		0.5511	0.92	0.12	0	0.205 0K		0.25L	
0.27 - 0.54	3.88C		0.92H	0.91	0.12	0	6.55J 0K		8.49E	
0.54 - 0.86	3.95C		1.43H	1.26	0.23	0	5.22J 0K		8.15E	
0.86 - 1.12	3.96C		1.44H	1.37	0.21	0	5.05J 0K		8.07E	
1.12 - 1.57	4.91C		3.96H	3.46	0.3	0	0.03J 0.3K		8.05E	
1.57 - 1.75	5.35C		3.65H	2.72	0.22	0.02	0J 0.2K		6.81E	
1.75 - 1.88	4.87C		3.03H	2.14	0.24	0	0.06J 0.32K		5.79E	
1.88 - 2.36	5.56C		3.87H	1.96	0.22	0	0J 0.16K		6.21E	
2.36 - 2.46	5.88C		3.01H	1.48	0.22	0	0J 0.11K		4.83E	
2.46 - 3.29	6.03C		2.99H	1.53	0.26	0	0J 0.35K		5.13E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size FS	Analysi Silt	s Clay
m	%	%	mg/kg	%	%	%	Mg/m3	01	00	%	Ont	Ciay
0 - 0.04												
0.04 - 0.27		2.78B		1248.2B	0.18A		0.76	4.61				
0.27 - 0.54		2.05B		1661.4B	0.14A		1.32	7.26				
0.54 - 0.86		2B		2073.9B	0.13A		0.67	7.41				
0.86 - 1.12		1.91B		1548.8B	0.11A			7.27				
1.12 - 1.57		0.34B		485.4B	0.02A			23.39				
1.57 - 1.75		0.29B		409.3B	0.01A			10.54				
1.75 - 1.88		0.14B		438.3B	0.01A			3.14				
1.88 - 2.36		0.07B		1723.8B	0.01A			3.94				
2.36 - 2.46		0.15B		774.7B	0.01A			7.49				
2.46 - 3.29		0.02B		426B	0.01A			4.17				
Depth	COLE		Grav	imetric/Volu	metric Wate	er Conter	nts		Ks	at	K unsa	ıt

Dopin	OOLL		- Olar	it out	it unout					
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m				g/	g- m3/m3	3			mm/h	mm/h

 $\begin{array}{c} 0 - 0.04 \\ 0.04 - 0.27 \\ 0.27 - 0.54 \\ 0.54 - 0.86 \\ 0.86 - 1.12 \\ 1.12 - 1.57 \\ 1.57 - 1.75 \\ 1.75 - 1.88 \\ 1.88 - 2.36 \\ 2.36 - 2.46 \end{array}$

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2.46 - 3.29

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Laboratory Analyses Completed for this profile