Proje	ct Name: ct Code: cy Name:	Regional REG Site ID: CSIRO Division of Soils (QI		bservation ID:	1		
Site Ir	nformation						
Desc. Date D Map R Northi Eastin	By: F Desc.: // ef.: S ng/Long.: 1 g/Lat.: -	R.F. Isbell / Sheet No. : 7958 1:100000 45.3875 19.6583333333333	Locality: Elevation: Rainfall: Runoff: Drainage:	17.6KM WNW. of 457 metres 635 Moderately rapid No Data	Bluff Downs on Maryvale Road.		
<u>Geolo</u> Expos Geol. I	ureType: S	Soil pit Tb	Conf. Sub. is Pare Substrate Material		a		
Land Rel/Slo	ope Class: (Gently undulating plains <9m 1-3%	Pattern Type:	Plain			
Elem. Slope:	Type:	Flat Plain) %	Relief: Slope Category: Aspect:	No Data Very gently slope No Data	d		
<u>Surfa</u>	<u>ce Soil Con</u>	dition (dry): Hardsetting					
<u>Erosi</u>	on:						
<u>Soil C</u>	lassificatio	<u>n</u>					
Ferric I ASC (All neo <u>Site D</u>			Princip Great han grazing by hoofe		N/A Gn3.21 Euchrozem		
		Tall Strata - Tree, , Sparse. *Sp	becies includes - Euc	alyptus crebra, Euc	alyptus grandifolia, Eucalyptus		
dichrom	•	_					
	<u>ce Coarse F</u>						
	e Morpholo						
A1	0 - 0.1 m	Dark reddish brown (5YR3/ blocky; Earthy fabric; Weak Gradual change to -			ucture, 5-10 mm, Angular us, Fine (0 - 2 mm), Nodules;		
B1	0.1 - 0.3 m	n Dark reddish brown (5YR3/4-Moist); ; Light clay (Light); Massive grade of structure; Earthy fabric; Weak consistence; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Many (20 - 50 %), Ferruginous, Fine (0 - 2 mm), Nodules; Gradual change to -					
B2	0.3 - 0.46 r	n Dark red (2.5YR3/6-Moist); Massive grade of structure; Basalt, coarse fragments; M change to -	Earthy fabric; Very fi	rm consistence; 0-2	2%, stony, 200-600mm,		
BC	0.46 - 0.61				cture; Earthy fabric; Very firm , Nodules; Gradual change to		
С	0.61 - 0.76	m Yellowish red (5YR4/6-Mois Very many (50 - 100 %), Ma Clear change to -			cture; Very firm consistence; les; Field pH 6 (pH meter);		
D	0.76 - 0.91	m Dark red (2.5YR3/6-Moist); ped fabric; Weak consistent change to -			e, <2 mm, Polyhedral; Smooth- - 2 mm), Nodules; Gradual		
	0.91 - 1.12	m Dark red (2.5YR3/6-Moist); Smooth-ped fabric; Weak c	; Light medium clay; onsistence; Few (2 -	Strong grade of str 10 %), Ferruginous	ucture, <2 mm, Polyhedral; , Fine (0 - 2 mm), Nodules;		
Morni	hological N	otos					

Morphological Notes

Observation Notes >76CM IS OLDER AND STRICTLY ORGANIZRED SOIL:10-46CM OCCASIONAL BASALT FLOATER:

Site Notes

BLUFF DOWNS

Project Name:	Regional		
Project Code:	REG	Site ID:	T46
Agency Name:	CSIRO Division	of Soils (C	LD)

Observation ID: 1

Project Name:	Regional				
Project Code:	REG	Site ID:	T46	Observation ID:	1
Agency Name:	CSIRO Divis	sion of Soils (C	(LD)		

Laboratory Test Results:

рН	1:5 EC	Ex	changeable	e Cations		Exchangeable	CEC	ECEC	ESP
	C dS/m	a	Mg	к	Na Cmol (Acidity (+)/kg			%
6.6A 6.5A	0.059A 0.047A	3.7B 12B	4.4 4	1.85 1.53	0.05 0.45		12C		0.42
6.5A 6.8A	0.047A 0.041A	9.2B	2.3	0.73	0.3		14C		2.14
6.8A 6.9A 7.1A	0.044A	11.6B	6.7	0.15	0.2		19C		1.05
	6.6A 6.5A 6.5A 6.8A 6.8A 6.8A 6.9A	6.6A 0.059A 6.5A 0.047A 6.5A 0.047A 6.8A 0.047A 6.8A 0.035A 6.9A 0.044A	Ca dS/m 6.6A 0.059A 3.7B 6.5A 0.047A 12B 6.5A 0.047A 6.8A 0.041A 9.2B 6.8A 0.035A 6.9A 0.044A	Ca Mg dS/m dS/m 6.6A 0.059A 3.7B 4.4 6.5A 0.047A 12B 4 6.5A 0.047A 6.8A 0.041A 9.2B 2.3 6.8A 0.035A 6.9A 0.044A 6.9A 0.044A	Ca Mg K dS/m 6.6A 0.059A 3.7B 4.4 1.85 6.5A 0.047A 12B 4 1.53 6.5A 0.047A 6.8A 0.041A 9.2B 2.3 0.73 6.8A 0.035A 6.9A 0.044A	Ca Mg K Na dS/m Cmol 6.6A 0.059A 3.7B 4.4 1.85 0.05 6.5A 0.047A 12B 4 1.53 0.45 6.5A 0.047A 12B 4 1.53 0.45 6.5A 0.047A 6.8A 0.041A 9.2B 2.3 0.73 0.3 6.8A 0.035A 6.9A 0.044A 0.044A 0.044A	Ca Mg K Na Acidity Cmol (+)/kg 6.6A 0.059A 3.7B 4.4 1.85 0.05 6.5A 0.047A 12B 4 1.53 0.45 6.5A 0.047A 12B 4 1.53 0.45 6.5A 0.047A 6.8A 0.041A 9.2B 2.3 0.73 0.3 6.8A 0.035A 6.9A 0.044A 6.9A 0.044A	Ca Mg K Na Acidity dS/m Cmol (+)/kg Cmol (+)/kg 12C 6.6A 0.059A 3.7B 4.4 1.85 0.05 12C 6.5A 0.047A 12B 4 1.53 0.45 12C 6.5A 0.047A 12B 4 1.53 0.45 14C 6.8A 0.041A 9.2B 2.3 0.73 0.3 14C 6.8A 0.035A 6.9A 0.044A 14C 14C	Ca Mg K Na Acidity Cmol (+)/kg 6.6A 0.059A 3.7B 4.4 1.85 0.05 12C 6.5A 0.047A 12B 4 1.53 0.45 6.5A 0.047A 6.8A 0.041A 9.2B 2.3 0.73 0.3 14C 6.8A 0.035A 6.9A 0.044A 14C 14C

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size A	nalysis	;
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1 0.1 - 0.3	6A	1.12D 0.58D	66B 6B	0.113A 0.053A	0.13A 0.08A			3 5	13D 17D	14 12	30 23	43 48
0.3 - 0.46 0.46 - 0.61 0.61 - 0.76			2B	0.056A				7	18D	16	18	49
0.76 - 0.91 0.91 - 1.22			3B	0.039A					3D	12	24	63

Depth	COLE		Grav	vimetric/Vo	olumetric W	ater Cont	ents		K sat	K unsat
		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

0 - 0.1 0.1 - 0.3 0.3 - 0.46 0.46 - 0.61 0.61 - 0.76 0.76 - 0.91 0.91 - 1.22

Project Name:	Regional		
Project Code:	REG	Site ID:	T46
Agency Name:	CSIRO Divisi	on of Soils (0	QLD)

Observation ID: 1

Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2 K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
19A1	Carbonates - rapid titration
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance