D N		51/						
Project Na Project Co		BV BV Site ID:	B1 0	bservatio	on ID:	1		
Agency N		SIRO Division of Soils (Q	-					
Site Infor	mation							
Desc. By: Date Desc.). Hubble 10/48	Locality: Elevation:	19 metre	00			
Map Ref.:		et No. : 8358 1:100000	Rainfall:	800	55			
Northing/L Easting/La		7.2088888888889 .7772222222222	Runoff: Drainage:	Moderate Moderate		rained		
Geology	 -19	.11122222222	Drainage.	Wouerale	ely well u	raineu		
ExposureT		l pit	Conf. Sub. is Pare		No Dat			
Geol. Ref.:	C	za	Substrate Materia	1:		coring, 2 m deep,Porous, solidated material (unidentified)		
Land Forr	n				01100110			
Rel/Slope (Class: Lev	vel plain <9m <1%	Pattern Type:	Alluvial p				
Morph. Type Elem. Type		Data vee	Relief: Slope Category:	4 metres Very gen		d		
Slope:	0 %		Aspect:	No Data	itry slope	ŭ		
Surface S	oil Condi	tion (dry): Hardsetting						
Erosion:								
Soil Class						N1/A		
Australian		ification: ophic Red Chromosol		ing Unit: pal Profile	Form	N/A Dr3.31		
ASC Confi				Soil Group		Red podzolic soil		
		al data are available.						
Vegetatio		No effective disturbance other t Low Strata - Tussock grass, , N	0 0 1		lone rec	orded		
vegetatio		Tall Strata - Tree, 6.01-12m, Sp	•					
Surface C		agments: No surface coarse	•		1100014			
Profile Mo	orphology	<u>I</u>						
A1 0-	- 0.1 m	Many (>5 per 0.01m2) Mee	dium (2-5mm) macro	pores, Dry;	; Weak c	ructure; Fine, (0 - 5) mm crack; onsistence; Very few (0 - 2 %), neter); Common, fine (1-2mm)		
A2 0.1	1 - 0.33 m	Light brownish grev (10YR6	6/2-Moist): . 10YR41:	Fine sand	v loam: N	Massive grade of structure:		
-		Light brownish grey (10YR6/2-Moist); , 10YR41; Fine sandy loam; Massive grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 6.6 (pH meter); Common, fine (1-2mm) roots; Gradual change to -						
B1 0.3	36 - 0.48 m					ive grade of structure; Fine, (0		
		- 5) mm crack; Many (>5 p Very few (0 - 2 %), Mangan fine (1-2mm) roots; Clear c	iferous, Medium (2 -			es, Dry; Weak consistence; ; Field pH 6.6 (pH meter); Few,		
B21 0.4	B21 0.51 - 0.81 m Reddish brown (2.5YR4/4-Moist); , 2.5Y72; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Fine, (0 - 5) mm crack; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 6.6 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -							
P22 0.9	81 - 1.14 m	C C	2/4 Maiath: Madium	alou: Made	oroto aro	do of atructuro 10.20 mm		
B22 0.8	01 - 1.14 11) mm crack; Moist; Fi			eld pH 7 (pH meter); Few, fine		
B31 1.′	14 - 1.52 m	Brown (7.5YR4/4-Moist); , 1 Angular blocky; Fine, (0 - 5) fine (1-2mm) roots; Diffuse) mm crack; Moist; Fi					
B32 1.5	52 - 1.98 m	Brown (7.5YR4/4-Moist); , 1 Weak consistence; Field p⊦						
Morpholo	gical Note	es						

Morphological Notes

Observation Notes GRASS ROOTS CONCENTRATED DOWN CRACKS:

Project Name:LBVProject Code:LBVSite ID:B1Agency Name:CSIRO Division of Soils (QLD)

Observation ID: 1

BURDEKIN VALLE

Project Name:	LBV				
Project Code:	LBV	Site ID:	B1	Observation ID:	1
Agency Name:	CSIRO Di	vision of Soils (C	LD)		

Laboratory Test Results:

Depth	рН	1:5 EC	Ex	changeabl	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	d	Mg	n		(+)/kg			%
0 - 0.1 0.1 - 0.33 0.36 - 0.48	6.6H 6.6H 6.6H	0.01B 0.01B 0.009B	3.9K	1.3	0.5	0.1				
0.51 - 0.81 0.81 - 1.14 1.14 - 1.52 1.52 - 1.98	6.6H 7H 7.5H 7.7H	0.009B 0.008B 0.009B 0.015B	7K	4.4	0.4	0.3				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysi	s
		С	Р	Р	Ν	κ	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.91E	100C	0.029D	0.061	В			6D	62	22	9
0.1 - 0.33									6D	60	18	14
0.36 - 0.48									6D	54	14	24
0.51 - 0.81									2D	37	· 9	49
0.81 - 1.14									1D	43	10	44
1.14 - 1.52									1D	51	14	34
1.52 - 1.98									1D	52	16	30
Depth	COLE		Gravir	netric/Volu	metric Wa	ter Conter	nts		Ks	at	K unsa	t

-	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 - 0.33 0.36 - 0.48 0.51 - 0.81 0.81 - 1.14 1.14 - 1.52 1.52 - 1.98

Project Name:	LBV		
Project Code:	LBV	Site ID:	B1
Agency Name:	CSIRO Div	vision of Soils (C	(LD)

Observation ID: 1

Laboratory Analyses Completed for this profile

15_NR_CA 15_NR_K 15_NR_MG 15_NR_NA 2_LOI 2A1 3_NR 4_NR 5A2 6Z 7_NR 9_NR 9_NR 9_NR 9_LCL P10_PB_CS P10_PB_ES	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded Loss on Ignition (%) Air-dry moisture content Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded Chloride - 1:5 soil/water extract, automated colour Organic carbon (%) - Not recorded Total nitrogen (%) - Not recorded Available P (mg/kg) - Not recorded Total element - P(%) - By boiling HCl Clay (%) - Plummet balance Coarse sand (%) - Plummet balance Eine sand (%) - Plummet balance
P10_PB_CS P10_PB_FS P10_PB_Z	Coarse sand (%) - Plummet balance Fine sand (%) - Plummet balance Silt (%) - Plummet balance