Projec	ct Name: ct Code: cy Name:	CAN CAN Site ID: CSIRO Division of Soils (I		Observatior	n ID:	1		
-	Site Information							
Desc. E Date De Map Re Northir Easting	esc.: ( ef.: ; ng/Long.: ;	P.H. Walker 03/12/81 Sheet No. : 8725 1:100000 149.175 -36.20138888888889	Locality: Elevation: Rainfall: Runoff: Drainage:	Mine 45 metres 430 Moderately Well draine	s y rapid	Bonnie Doon farm near Diatomite		
<u>Geolo</u> Exposi Geol. F	ureType:	Soil pit No Data	Conf. Sub. is Par Substrate Materia		2 m deep,Non-porous, dense, Clay			
Morph. Elem. 1 Slope:	ppe Class: . Type: Type:	Undulating rises 9-30m 3-10% Crest Hillcrest 2 %	Pattern Type: Relief: Slope Category: Aspect:	Pediment 10 metres No Data 0 degrees				
	ce Soil Cor on: Modera	ndition (dry): Hardsetting						
	lassificatio							
		assification:	Мари	oing Unit:		N/A		
Haplic (	Calcic Brown	n Dermosol		ipal Profile F	Form:	Gn3.13		
	confidence:	incomplete but reasonable confi		t Soil Group:		Red earth		
		Cultivation. Rainfed	dence.					
Vegeta		_						
Surfac	ce Coarse	Fragments: 0-2%, medium gra	avelly, 6-20mm, suba	ingular, Quart	z			
	Morpholo							
A1	0 - 0.1 m	Dark reddish brown (5YR consistence; 0-2%, fine gr (pH meter); Gradual chan	avelly, 2-6mm, subar			ture, <2 mm; Moist; Very firm e fragments; Field pH 6.1		
A1	0.1 - 0.2 m	n Dark reddish brown (2.5Y Very firm consistence; Fie				de of structure, <2 mm; Moist;		
B11	0.2 - 0.3 m	n Dark reddish brown (2.5Y Subangular blocky; Moist;						
B12	0.3 - 0.4 m	n Dark yellowish brown (10) Subangular blocky; Moist;						
B21	0.4 - 0.5 m	n Dark yellowish brown (10) Subangular blocky; Moist;						
B22	0.5 - 0.6 m		mm, Subangular blo			:3/4-Dry); ; Medium clay; Weak consistence; Field pH 7.1		
B23	0.6 - 0.7 m	grade of structure, 20-50	mm, Subangular blo	cky; Dry; Very	/ strong	:3/4-Dry); ; Medium clay; Weak consistence; 0-2%, fine 2 (pH meter); Clear change to		
B31	0.7 - 0.8 m	n Dark yellowish brown (10 <sup>\</sup> grade of structure, 100-20 meter); Gradual change to	0 mm, Prismatic; Moi			:3/4-Dry); ; Heavy clay; Strong ence; Field pH 7.2 (pH		
B32	0.8 - 0.9 m	n Dark brown (10YR3/3-Moi 100-200 mm, Prismatic; M				ay; Strong grade of structure, ange to -		
Bk	0.9 - 0.95		t; Heavy clay; Strong faces or walls coated	grade of stru d, distinct; Mai	cture, 1 ny (20 -			

Project Name: Project Code: Agency Name:	CAN CAN Site ID: CP203 Observation ID: 1 CSIRO Division of Soils (NSW)
Bk 0.95 - 1 m	Red (2.5YR5/8-Moist); ; Clay loam; , Platy; Dry; Firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Common (10 - 20 %), Calcareous, , Laminae; Field pH 8.7 (pH meter); Gradual change to -
Bk 1 - 1.2 m	Yellowish red (5YR5/8-Moist); ; Clay loam; , Platy; Dry; Firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Many (20 - 50 %), Calcareous, , Laminae; Field pH 8.8 (pH meter); Abrupt change to -
Morphological M	lotos

## Morphological Notes

**Observation Notes** 

<u>Site Notes</u> LAKE BUNYAN

Project Name:	CAN			
Project Code:	CAN	Site ID:	CP203	
Agency Name:	CSIRO Div	ision of Soils (N	ISW)	

Observation ID: 1

## Laboratory Test Results:

Depth	рН	1:5 EC	Ex	changeabl	e Cations		Exchangeable	CEC	ECEC	ESP
			a	Mg	к	Na	Acidity			
m		dS/m				Cmol	(+)/kg			%
0 - 0.1	6.1A	0.05A	4.7K	1.1	1.1	0	10B	16.9J		0.00
0.1 - 0.2	6.3A	0.03A	5.7K	1.3	1	0	9B	17J		0.00
0.2 - 0.3	6.7A	0.03A								
0.3 - 0.4	6.8A	0.03A	7.6K	2.4	1.7	0.17	15.5B	27.4J		0.62
0.4 - 0.5	7A	0.02A								
0.5 - 0.6	7.1A	0.02A	10.5K	3.7	1.9	0.29	17.2B	33.6J		0.86
0.6 - 0.7	7.2A	0.02A								
0.7 - 0.8	7.2A	0.02A	18.4K	6.5	1.8	0.41	14.7B	41.8J		0.98
0.8 - 0.9	7.3A	0.02A								
0.9 - 0.95	8.3A	0.14A								
0.95 - 1	8.7A	0.12A								
1 - 1.15	8.8A	0.12A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk				Analysis
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt Clay
	70	70	iiig/kg	70	70	70	ing/ino			70	
0 - 0.1		1.72D			0.147	′B					
0.1 - 0.2		1.32D			0.131	В					
0.2 - 0.3		1.2D			0.106	βB					
0.3 - 0.4		0.96D			0.1E	3					
0.4 - 0.5		0.84D			0.096						
0.5 - 0.6		0.54D			0.082						
0.6 - 0.7		0.51D			0.072	2B					
0.7 - 0.8	0.07A										
0.8 - 0.9	0.09A				0.074	IB					
0.9 - 0.95	9.2A										
0.95 - 1	42.8A										
1 - 1.15	57.1A	l l									
Depth	COLE		Gravir	netric/Volu	umetric Wa	ater Conte	nts		Ks	at	K unsat
•		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar			
m				g/g	- m3/m3				mm	ı/h	mm/h
0 - 0.1											
0.1 - 0.2											
0.2 - 0.3											
0.3 - 0.4											
0.4 - 0.5											
0.5 - 0.6											
0.6 - 0.7											
0.7 - 0.8											
0.8 - 0.9											
0.9 - 0.95											

0.95 - 1 1 - 1.15

Project Name:	CAN		
Project Code:	CAN	Site ID:	CP203
Agency Name:	CSIRO Division	n of Soils (N	ISW)

## Observation ID: 1

## Laboratory Analyses Completed for this profile

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
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
7_NR	Total nitrogen (%) - Not recorded