Project Name: Project Code: Agency Name	CAN CAN Site ID: CSIRO Division of Soils (Observation	ID: 1			
<u>Site Informatio</u> Desc. By:	n P.H. Walker	Locality:	901				
Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	01/04/77 Sheet No. : 8727 1:100000	Elevation: Rainfall: Runoff: Drainage:	600 metre 640 Slow	s well drained			
<u>Geology</u> ExposureType: Geol. Ref.:	No Data No Data	Conf. Sub. is Par Substrate Materia	al: F	No Data Porous, Unconsolidated material (unidentified)			
<u>Land Form</u> Rel/Slope Class	Gently undulating plains <9m 1-3%	Pattern Type:	Terrace (al	luvial)			
Morph. Type: Elem. Type: Slope:	Flat Valley flat 2 %	Relief: Slope Category: Aspect:	No Data Very gently 225 degree				
Surface Soil C							
Erosion: Soil Classifica	tion						
Australian Soil (Марр	ing Unit:	N/A			
Haplic Hypercalc ASC Confidenc	c Brown Kandosol a:		ipal Profile F Soil Group:	orm: Gn Yellow earth			
All necessary an	alytical data are available.						
Site Disturban	ce: Cultivation. Irrigated, past or Low Strata - Forb, , . *Specie		orded				
Surface Coars	•						
Profile Morpho	ology						
A1 0-0.1 r	A1 0 - 0.1 m Brown (7.5YR4/4-Moist); ; Fine sandy loam; Massive grade of structure; Dry; Firm consistence; Field pH 5 (pH meter); Gradual change to -						
A1 0.1 - 0.2	consistence; 2-10%, fine	gravelly, 2-6mm, disp	ersed, Gravel,	ade of structure; Dry; Firm , coarse fragments; Very few (0 - 2 meter); Diffuse change to -			
A2 0.2 - 0.3	structure; Dry; Very firm	consistence; 2-10%, f	ine gravelly, 2	; Fine sandy loam; Massive grade of -6mm, dispersed, Gravel, coarse (2 -6 mm), ; Field pH 6.3 (pH meter);			
A3 0.3 - 0.4	consistence; 2-10%, fine	Yellowish red (5YR4/8-Moist); ; Clay loam, fine sandy; Massive grade of structure; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6.8 (pH meter); Clear change to -					
B1 0.4 - 0.5	B1 0.4 - 0.5 m Yellowish red (5YR5/6-Moist); ; Fine sandy medium clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6.7 (pH meter); Clear change to -						
B1 0.5 - 0.6							
B1 0.6 - 0.7	structure; Earthy fabric; D	ry; Very firm consister ; Common (10 - 20 %	nce; 20-50%,	6 ; Light clay; Massive grade of fine gravelly, 2-6mm, dispersed, niferous, Medium (2 -6 mm), ; Field			
B2 0.7 - 0.8				Heavy clay; Massive grade of Field pH 7 (pH meter); Clear change			

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B2	0.8 - 0.9 m	Light olive brown (2.5Y5/4-Moist); , 2.5Y42; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Field pH 7.2 (pH meter); Gradual change to -
B2	0.9 - 1 m	Light olive brown (2.5Y5/4-Moist); , 2.5Y42, 0-2% ; , 0-2% ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Field pH 7.9 (pH meter); Gradual change to -
B2	1.1 - 1.3 m	Greyish brown (2.5Y5/3-Moist); , 2.5Y42, 0-2% ; , 0-2% ; Heavy clay; Weak grade of structure, 20- 50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Field pH 8.6 (pH meter); Gradual change to -
Bk	1.3 - 1.5 m	Light olive brown (2.5Y5/4-Moist); , 5YR46, 2-10% ; , 2-10% ; Medium clay; Massive grade of structure; Smooth-ped fabric; Dry; Very strong consistence; Very few (0 - 2 %), Ferromanganiferous, , ; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.9 (pH meter); Clear change to -
BCk	1.5 - 1.7 m	Light olive brown (2.5Y5/4-Moist); , 5YR58, 20-50% ; , 2.5YR44, 20-50% ; Light clay; Massive grade of structure; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.9 (pH meter); Gradual change to -
Ck	1.7 - 1.9 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y58, 0-2% ; , 2.5YR44, 0-2% ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.9 (pH meter); Gradual change to -
Ck	1.9 - 2 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y58, 0-2% ; , 2.5YR44, 0-2% ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.9 (pH meter);

Morphological Notes

Observation Notes ALLUVIUM BIOTIC ACTIVITY 0-60CM

Site Notes

KARARA

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Laboratory Test Results:

Depth	рН	1:5 EC		changeabl			Exchangeable	CEC	ECEC	ESP
m		dS/m	a	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.1 0.1 - 0.2	5A 5.1A	0.07A <0.04A	1.8K	0.2	0.23	0	10.4B	12.7J		0.00
0.2 - 0.3 0.3 - 0.4	6.3A 6.8A	<0.04A <0.04A	ЗK	0.55	0.11	0	4.9B	8.6J		0.00
0.4 - 0.5 0.5 - 0.6	6.7A 6.9A	<0.04A <0.04A	2.8K	0.94	0.15	0	5.8B	9.7J		0.00
0.6 - 0.7 0.7 - 0.8	7A 7A	<0.04A 0.04A	2.8K	1.8	0.15	0.35	5.6B	10.8J		3.24
0.8 - 0.9 0.9 - 1	7.2A 7.9A	0.08A 0.12A	8.1K	9.9	0.38	2.5	11.4B	32.3J		7.74
1.1 - 1.3 1.3 - 1.5 1.5 - 1.7 1.7 - 1.9	8.6A 8.9A 8.9A 8.9A	0.12A 0.12A 0.08A 0.08A	8.7K	11.7	0.33	3.3	3.3B	27.3J		12.09
1.9 - 2	8.9A	0.13A								

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Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysi	s
		С	Р	Р	Ν	к	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
						_						
0 - 0.1		1.55D			0.137				6D	53	-	
0.1 - 0.2		0.51D			0.055	В			6D	51	21	19
0.2 - 0.3		0.33D			0.044	B			6D	49	25	20
0.3 - 0.4		0.33D			0.043	В			6D	46	22	22
0.4 - 0.5		0.23D			0.033	В			8D	42	27	23
0.5 - 0.6		0.18D			0.023	В			6D	39	28	26
0.6 - 0.7		0.16D			0.028	В			5D	37	28	28
0.7 - 0.8		0.43D			0.067	В			1D	14	16	72
0.8 - 0.9		0.41D			0.064				1D	8	15	
0.9 - 1		0.26D			0.048					•		
1.1 - 1.3	0.07A				0.0.0	-			1D	13	20	66
1.3 - 1.5	0.07A								0D	18	-	
1.5 - 1.7	0.07A								00		20	02
1.7 - 1.9	0.08A								0D	43	23	30
1.9 - 2	0.00A								00	40	20	50
1.3-2	0.174	0.00D										

Depth	COLE		Gravimetric/Volumetric Water Contents					Gravimetric/Volumetric Water Contents K sa				K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/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													
0700													

0.0 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1.1 - 1.3

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1.3 - 1.5				
1.5 - 1.7				

1.7 - 1.9 1.9 - 2

Project Name:	CAN		
Project Code:	CAN	Site ID:	CP73
Agency Name:	CSIRO Divisio	on of Soils (A	ACT)

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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++) - meg per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meg 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
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