CAN **Project Name:** 

**Project Code:** CAN Site ID: **CP75** Observation ID: 1

**Agency Name: CSIRO Division of Soils (ACT)** 

**Site Information** 

Desc. By: Date Desc.: Locality: P.H. Walker Elevation: 01/04/77 630 metres Sheet No.: 8727 Map Ref.: 1:100000 Rainfall: 640 Northing/Long.: 149.2 Runoff: Slow -35.2613888888889 Well drained

Easting/Lat.: Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data **Substrate Material:** Porous, Unconsolidated material

Drainage:

(unidentified)

**Land Form** 

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Terrace (alluvial)

1-3%

Morph. Type: Flat Relief: No Data

Valley flat Slope Category: Elem. Type: Very gently sloped Slope: 3 % Aspect: 125 degrees

Surface Soil Condition (dry): Soft

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification: Mapping Unit:** N/A Bleached Hypocalcic Red Chromosol Principal Profile Form: Dr

**ASC Confidence: Great Soil Group:** Red podzolic soil

All necessary analytical data are available. Site Disturbance: Cultivation. Rainfed

**Vegetation:** Low Strata - Sod grass, , . \*Species includes - None recorded

## **Surface Coarse Fragments:**

Profile	Morphology	
A1	0 - 0.07 m	Dark brown (10YR3/3-Moist); ; Sandy loam; Massive grade of structure, 2-5 mm; Dry; Very weak consistence; Field pH 5.7 (pH meter); Abrupt change to -
A2	0.07 - 0.1 m	Brown (7.5YR5/4-Moist); , $10$ YR33, $2$ - $10$ %; , $2$ - $10$ %; Sandy loam; Massive grade of structure, $2$ - $1$ 5 mm; Dry; Very weak consistence; Field pH 5.5 (pH meter); Gradual change to -
A2	0.1 - 0.2 m	Brown (7.5YR5/4-Moist); Pinkish grey (7.5YR7/3-Dry); ; Sandy loam; Massive grade of structure, 2-5 mm; Dry; Very weak consistence; Field pH 6 (pH meter); Gradual change to -
A2	0.2 - 0.25 m	Brown (7.5YR5/4-Moist); Pinkish grey (7.5YR7/3-Dry); ; Sandy loam; Massive grade of structure, 2-5 mm; Dry; Very weak consistence; Field pH 6.6 (pH meter); Clear change to -
A3	0.25 - 0.35 m	Yellowish red (5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure, 2-5 mm; Earthy fabric; Dry; Firm consistence; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 6.7 (pH meter); Clear change to -
В	0.35 - 0.4 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Massive grade of structure, 2-5 mm; Smooth-ped fabric; Dry; Firm consistence; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 7 (pH meter); Gradual change to -
В	0.4 - 0.5 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Massive grade of structure, 2-5 mm; Smooth-ped fabric; Moist; Weak consistence; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 7.3 (pH meter); Gradual change to -
В	0.5 - 0.6 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Massive grade of structure, 2-5 mm; Smooth-ped fabric; Moist; Weak consistence; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 7.2 (pH meter); Gradual change to -
В	0.6 - 0.7 m	Yellowish red (5YR4/6-Moist); , 10YR54, 0-2%; , 0-2%; Heavy clay; Massive grade of structure, 2-5 mm; Smooth-ped fabric; Moist; Firm consistence; Very few (0 - 2 %), Ferromanganiferous, , ; Field pH 7.3 (pH meter); Gradual change to -
В	0.7 - 0.8 m	Yellowish red (5YR4/6-Moist); , 10YR54, 0-2%; , 0-2%; Heavy clay; Massive grade of structure, 2-5 mm; Smooth-ped fabric; Moist; Firm consistence; Very few (0 - 2 %), Ferromanganiferous, , ; Field pH 7.1 (pH meter); Gradual change to -

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В	0.8 - 0.9 m	Yellowish red (5YR4/6-Moist); , 10YR54, 2-10%; , 2-10%; Heavy clay; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Strong consistence; Field pH 7.1 (pH meter); Gradual change to -
В	0.9 - 1 m	Yellowish red (5YR4/6-Moist); , 10YR54, 2-10%; , 2-10%; Heavy clay; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Strong consistence; Field pH 6.8 (pH meter); Gradual change to -
ВС	1.1 - 1.3 m	Yellowish red (5YR4/6-Moist); , 5YR42, 20-50%; , 10YR54, 20-50%; Heavy clay; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, dispersed, Gravel, coarse fragments; Field pH 7 (pH meter); Gradual change to -
ВС	1.3 - 1.4 m	Yellowish red (5YR4/6-Moist); , 5YR42, 20-50%; , 10YR54, 20-50%; Heavy clay; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, dispersed, Gravel, coarse fragments; Field pH 7.5 (pH meter); Clear change to -
BCk	1.4 - 1.5 m	Olive brown (2.5Y4/4-Moist); , 5YR46, 20-50%; , 20-50%; Medium heavy clay; Massive grade of structure, 2-5 mm; Smooth-ped fabric; Moist; Very firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 7.6 (pH meter); Gradual change to -
С	1.5 - 1.6 m	Yellowish brown (10YR5/4-Moist); , 10YR33, 2-10%; , 2-10%; Medium heavy clay; Massive grade of structure, 2-5 mm; Earthy fabric; Moist; Very firm consistence; Field pH 7.6 (pH meter);

## **Morphological Notes**

Observation Notes
ALLUVIUM BIOTIC ACTIVITY 0-35CM
Site Notes

CHERRYBURN

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Depth	рН	1:5 EC	Exc Ca	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC		ECEC	E	SP
m		dS/m	Ca	wy	K	Cmol (+					o,	<b>%</b>
0 - 0.07	5.7A	0.13A	-	0.69	1	0	6.4B	11.1	J		0	.00
0.07 - 0.1 0.1 - 0.2	5.5A 6A	0.07A 0.05A		0.19	0.66	0	2.1B	4.5	J		0	.00
0.2 - 0.25	6.6A	0.04A										
0.25 - 0.35 6.7A		0.04A	2.8K	0.33	0.57	0	0.81B	4.5	J		0	.00
0.35 - 0.4 7A 0.4 - 0.5 7.3A		0.04A	6.5K	4.0	0.81	0.09	2.3B	11J	ı		0	.82
0.4 - 0.5 0.5 - 0.6	7.3A 7.2A	0.04A 0.04A	o.sr.	1.3	0.61	0.09	2.30	113			U	.02
0.5 - 0.6	7.2A 7.3A	0.04A 0.05A										
0.0 - 0.7	7.3A 7.1A	0.05A 0.05A	9.2K	2.7	1	0.22	4.1B	17.3	1		1	.27
0.7 - 0.8	7.1A 7.1A	0.05A	3.21	2.1	'	0.22	4.10	17.5	J		'	.21
0.9 - 1	6.8A	0.06A	11.5K	3.7	0.95	0.25	5.8B	22.2	J		1	.13
1.1 - 1.3	7A	0.04A		0	0.00	0.20	0.02		•		•	
1.3 - 1.4	7.5A	<0.04A		3.5	0.9	0.39	2.6B	17.4	J		2	.24
1.4 - 1.5	7.6A	<0.04A										
1.5 - 1.6	7.6A	<0.04A										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Sizo	Analysis	
Берш	Cacos	C	P	P	N	K	Density	GV	CS	FS	Silt	
m	%	%	mg/kg		%	%	Mg/m3	٠.	-	%	O	o.u.y
0 - 0.07		2.73D			0.24	41B		2	21D	41	24	9
0.07 - 0.1		0.71D			0.0	8B						
0.1 - 0.2		0.35D			0.03			4	20D			8
0.2 - 0.25		0.22D			0.02			5	20D			9
0.25 - 0.35		0.16D			0.01			7	20D	36	23	13
0.35 - 0.4		0.17D			0.02	-		_				
0.4 - 0.5		0.15D			0.02			2	18D	26	23	31
0.5 - 0.6		0.13D			0.01			0	445	00	0.4	0.7
0.6 - 0.7		0.17D 0.18D			0.03			2	11D	23	24	37
0.7 - 0.8 0.8 - 0.9		0.18D 0.18D			0.03 0.03			1	5D	23	28	42
0.8 - 0.9		0.18D 0.23D			0.03			'	JD	23	20	42
1.1 - 1.3		0.25D			0.00	J4D		0	1D	25	25	47
1.3 - 1.4		0.2D 0.14D						U	יוו	20	20	7,
1.4 - 1.5	0.03A	-										
1.5 - 1.6	0.07A	-						1	13D	39	19	26
Depth	Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar		Bar	3		unout	
m					g - m3/m			-	mm	/h	mm/h	

0 - 0.07 0.07 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.35 0.35 - 0.4 0.4 - 0.5 0.5 - 0.6 0.6 - 0.7

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0.7 - 0.8 0.8 - 0.9 0.9 - 1 1.1 - 1.3 1.3 - 1.4 1.4 - 1.5 1.5 - 1.6

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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 Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded 15\_NR\_MG 15\_NR\_NA Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

Exchangeable aluminium - med per 100g of soil - Aluminium By difference of C and A or B 15G\_C\_AL1

Carbonates - rapid titration 19A1 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\_GRAV

Gravel (%) Clay (%) - Plummet balance P10\_PB\_C P10\_PB\_CS Coarse sand (%) - Plummet balance P10\_PB\_FS Fine sand (%) - Plummet balance P10\_PB\_Z Silt (%) - Plummet balance