CAN **Project Name:**

Project Code: CAN Site ID: **CP74** Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Locality: Desc. By: Date Desc.: P.H. Walker

Elevation: 01/04/77 630 metres Sheet No.: 8727 1:100000 Map Ref.: Rainfall: 640 Northing/Long.: 149.19694444444 Runoff: Slow Easting/Lat.: -35.2611111111111 Drainage: Well drained

Geology

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

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

(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: Very gently sloped Elem. Type: Slope: 2 % Aspect: 125 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Haplic Eutrophic Red Chromosol Principal Profile Form: Dr

ASC Confidence: Great Soil Group: Red podzolic soil

All necessary analytical data are available.

<u>Site Disturbance:</u> Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

	e Morphology	
A1	0 - 0.1 m	Reddish brown (5YR4/3-Moist); ; Sandy loam; Massive grade of structure; Dry; Very weak consistence; Field pH 5.6 (pH meter); Gradual change to -
A2	0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); Light reddish brown (5YR6/4-Dry); ; Sandy loam; Massive grade of structure; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), ; Field pH 6.5 (pH meter); Clear change to -
B2	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 5.7 (pH meter); Gradual change to -
B2	0.3 - 0.4 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Massive grade of structure; Smooth-ped fabric; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6.8 (pH meter); Gradual change to -
B2	0.4 - 0.5 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Massive grade of structure; Smooth-ped fabric; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Gravel, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 7 (pH meter); Gradual change to -
B2	0.5 - 0.6 m	Red (2.5YR4/6-Moist); ; Light clay; Massive grade of structure; Smooth-ped fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Gravel, coarse fragments; Few (2 - 10%), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 7.1 (pH meter); Gradual change to -
В3	0.6 - 0.7 m	Red (2.5YR4/6-Moist); , 5YR48, 2-10%; , 2-10%; Light clay; Massive grade of structure; Smooth-ped fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Gravel, coarse fragments; Few (2 - 10%), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 7.2 (pH meter); Gradual change to -
ВС	0.7 - 0.8 m	Yellowish red (5YR5/6-Moist); , 2.5YR46, 2-10%; , 2-10%; Clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, dispersed, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 7 (pH meter); Gradual change to -

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ВС	0.8 - 0.9 m	Yellowish red (5YR5/6-Moist); , 2.5YR46, 2-10%; , 2-10%; Clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, dispersed, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), ; Field pH 7 (pH meter); Gradual change to -
ВС	0.9 - 1 m	Strong brown (7.5YR5/6-Moist); , 5YR46, 2-10%; , 2-10%; Light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, dispersed, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), ; Field pH 6.9 (pH meter); Gradual change to -
С	1.1 - 1.2 m	Yellowish brown (10YR5/6-Moist); , 2.5YR36, 2-10%; , 10YR52, 2-10%; Light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7.1 (pH meter); Gradual change to -
С	1.3 - 1.4 m	Yellowish brown (10YR5/4-Moist); , 5YR46, 2-10%; , 2-10%; Light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7.5 (pH meter); Gradual change to -
С	1.5 - 1.6 m	Yellowish brown (10YR5/4-Moist); , 2.5Y52, 20-50%; , 5YR46, 20-50%; Clay loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7.6 (pH meter);

Morphological Notes
Observation Notes
ALLUVIUM BIOTIC 0-20CM
Site Notes
AVONLEY

Project Name: Project Code: Agency Name: CAN

CAN Site ID: CP74
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<u>Laboratory Test Results:</u>													
Depth	рН	1:5 EC		hangeable	Cations	Е	xchangeable	CEC		ECEC		ESP	
m			Ca	Mg	K	Na Cmol (+)	Acidity					%	
•••		dS/m				Cilioi (+)	/kg					70	
0 - 0.1	5.6A	0.08A	1.4K	0.34	1.1	0	8.8B	11.6	J		(0.00	
0.1 - 0.2	6.5A	0.04A		0.75	1.3	0	4.7B	11.8				0.00	
0.2 - 0.3	5.7A	0.04A		0.26	1	0	6B	9.6		0.00			
0.3 - 0.4 6.8A		<0.04A	6.8K	1.3	1.4	0	6.8B	16.2				0.00	
0.4 - 0.5	7A	<0.04A											
0.5 - 0.6			1.9 0.6 0		0	3.7B 13J				(0.00		
0.6 - 0.7	7.2A	<0.04A											
0.7 - 0.8	7A	<0.04A	6.3K	2	0.42	0	3.7B	12.4	J		(0.00	
0.8 - 0.9	7A	<0.04A											
0.9 - 1	6.9A	0.04A	-	3.5	3.5 0.66 0		6.2B 18.3		J		(0.00	
1.1 - 1.2	7.1A	0.04A											
1.3 - 1.4	7.5A	<0.04A		4.7	0.47	0.15	0.7B	14.2	J		1	.06	
1.5 - 1.6	7.6A	<0.04A											
Domáh	C-CO2	Overenie	Avail	Total	Total	Total	Bulk	Da		C:	Analysis		
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	K	Density		CS	FS	Silt		
m	%	%	mg/kg		%	%	Mg/m3	ÖV	00	%	Ont	Ciay	
	,,,	,,	55	,,,	,,,	,,				,,			
0 - 0.1		1.34D			0.12	26B		4	21D	47	14	10	
0.1 - 0.2		0.73D			0.0			2	22D		20	9	
0.2 - 0.3		0.74D			0.05			2	18D		15	20	
0.3 - 0.4		0.58D			0.04			2	18D		16	27	
0.4 - 0.5		0.57D			0.03	86B		3	18D	35	15	27	
0.5 - 0.6		0.29D			0.02	25B		2	20D	31	16	29	
0.6 - 0.7		0.25D			0.01	8B		6	25D	28	14	25	
0.7 - 0.8		0.22D			0.0			11	22D		16	23	
0.8 - 0.9		0.28D			0.02			6	24D		16	33	
0.9 - 1		0.22D			0.02			8	23D		16	33	
1.1 - 1.2		0.1D			0.01	4B		1	5D	35	26	35	
1.3 - 1.4		0.04D											
1.5 - 1.6		0.04D											
Depth COLE Gravimetric/Volumetric Water Contents K sat								K unsa	+				
		Sat.	0.05 Bar		0.5 Bar	1 Bar		15 Bar					
m				g/	g - m3/m3	3			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													
0.7 - 0.8													
0.8 - 0.9													
0.9 - 1													
1.1 - 1.2													
1.3 - 1.4													
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 - meq per 100g of soil - Aluminium By difference of C and A or B 15G_C_AL1

Air-dry moisture content 2A1 EC of 1:5 soil/water extract 3A1 4A1 pH of 1:5 soil/water suspension

5A2 Chloride - 1:5 soil/water extract, automated colour

Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen (%) - Not recorded 6A1_UC

7_NR

P10_GRAV

P10_PB_C P10_PB_CS Clay (%) - Plummet balance Coarse sand (%) - Plummet balance P10_PB_FS Fine sand (%) - Plummet balance P10_PB_Z Silt (%) - Plummet balance