

Project Name: CAN
Project Code: CAN **Site ID:** CP76 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P.H. Walker	Locality:	
Date Desc.:	01/04/77	Elevation:	630 metres
Map Ref.:	Sheet No. : 8727 1:100000	Rainfall:	640
Northing/Long.:	149.211111111111	Runoff:	Very slow
Easting/Lat.:	-35.261111111111	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	Level
Slope:	0 %	Aspect:	125 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Eutrophic Brown Kandosol	Principal Profile Form:	Um
ASC Confidence:	Great Soil Group:	Alluvial soil
All necessary analytical data are available.		

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

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

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm, , Gravel

Profile Morphology

0 - 0.1 m	Dark brown (10YR3/3-Moist); ; Loam; Weak grade of structure, 2-5 mm, Granular; Very weak consistence; 0-2%, coarse gravelly, 20-60mm, dispersed, Gravel, coarse fragments; Field pH 6.1 (pH meter); Gradual change to -
0.1 - 0.2 m	Dark yellowish brown (10YR4/4-Moist); ; Loam; Massive grade of structure; Firm consistence; Field pH 6.5 (pH meter); Abrupt change to -
0.2 - 0.24 m	Very dark greyish brown (10YR3/2-Moist); , 10YR44, 2-10% ; , 2-10% ; Clay loam; Massive grade of structure; Firm consistence; 0-2%, coarse gravelly, 20-60mm, dispersed, Gravel, coarse fragments; Field pH 6.7 (pH meter); Abrupt change to -
0.24 - 0.3 m	Brown (10YR4/3-Moist); , 10YR32, 2-10% ; , 2-10% ; Clay loam; Massive grade of structure; Firm consistence; Field pH 6.9 (pH meter); Gradual change to -
0.3 - 0.4 m	Brown (10YR4/3-Moist); , 5YR46, 0-2% ; , 0-2% ; Sandy clay loam; Massive grade of structure; Firm consistence; Field pH 7.2 (pH meter); Gradual change to -
0.4 - 0.45 m	Brown (10YR4/3-Moist); , 5YR46, 0-2% ; , 0-2% ; Sandy clay loam; Massive grade of structure; Firm consistence; Field pH 7.3 (pH meter); Clear change to -
0.45 - 0.55 m	Black (10YR2/1-Moist); , 10YR43, 2-10% ; , 2-10% ; Loam; Massive grade of structure; Firm consistence; Field pH 7.4 (pH meter); Abrupt change to -
0.55 - 0.7 m	Brown (10YR4/3-Moist); , 7.5YR44, 2-10% ; , 2-10% ; Loamy sand; Massive grade of structure; Smooth-ped fabric; Very firm consistence; 0-2%, coarse gravelly, 20-60mm, dispersed, Gravel, coarse fragments; Field pH 7.5 (pH meter); Abrupt change to -
0.7 - 0.8 m	Dark greyish brown (10YR4/2-Moist); , 5YR44, 2-10% ; , 2-10% ; Sandy loam; Massive grade of structure; Smooth-ped fabric; Field pH 7.4 (pH meter); Abrupt change to -
0.8 - 0.84 m	Reddish yellow (5YR7/6-Moist); , 7.5YR54, 20-50% ; , 20-50% ; Field pH 7.2 (pH meter); Abrupt change to -
0.84 - 1 m	Brown (10YR4/3-Moist); , 5YR46, 2-10% ; , 10YR42, 2-10% ; Sandy loam; Massive grade of structure; Earthy fabric; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (pH meter); Gradual change to -

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1 - 1.2 m	Very dark greyish brown (2.5Y3/2-Moist); , 2.5Y43, 2-10% ; , 2-10% ; Clay loam; Massive grade of structure; Earthy fabric; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), ; Field pH 6.8 (pH meter); Clear change to -
1.2 - 1.3 m	Very dark grey (2.5Y3/1-Moist); , 2.5Y55, 2-10% ; , 2.5Y51, 2-10% ; Light clay; Massive grade of structure; Smooth-ped fabric; Very strong consistence; 0-2%, coarse gravelly, 20-60mm, dispersed, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), ; Field pH 6.6 (pH meter);

Morphological Notes

Observation Notes

ALLUVIUM 80-84CM BURNT SOIL WITH CHARCOAL BIOTIC ACTIVITY 0-55CM

Site Notes

CHERRYBURN

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol	(+)/kg		
0 - 0.1	6.1A	0.17A	6.3K	2.3	1.4	0.15	5.5B	15.8J	0.95
0.1 - 0.2	6.5A	0.05A	6.4K	2	1	0.16	3.2B	12.8J	1.25
0.2 - 0.24	6.7A	0.04A							
0.24 - 0.3	6.9A	<0.04A	5.8K	2.2	0.2	0.08	1.8B	10.2J	0.78
0.3 - 0.4	7.2A	<0.04A							
0.4 - 0.45	7.3A	<0.04A	6K	3.3	0.11	0.27	1B	10.7J	2.52
0.45 - 0.55	7.4A	<0.04A							
0.55 - 0.7	7.5A	<0.04A							
0.7 - 0.8	7.4A	<0.04A	5.9K	3.9	0.12	0.34	1.4B	11.8J	2.88
0.8 - 0.84	7.2A	0.04A							
0.84 - 1	7A	0.04A	7K	4.4	0.17	0.4	1.8B	13.8J	2.90
1 - 1.2	6.8A	0.06A							
1.2 - 1.3	6.6A	<0.04A							

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		2.5D			0.225B			1	10D	47	18	18
0.1 - 0.2		1.11D			0.082B			1	8D	50	19	20
0.2 - 0.24		0.85D			0.053B				18D	38	20	18
0.24 - 0.3		0.46D			0.032B				20D	37	23	17
0.3 - 0.4		0.27D			0.021B				11D	45	22	19
0.4 - 0.45		0.36D			0.026B				5D	54	20	19
0.45 - 0.55		0.42D			0.027B				19D	43	20	16
0.55 - 0.7		0.18D			0.017B				26D	28	11	8
0.7 - 0.8		0.26D			0.021B				4D	54	18	22
0.8 - 0.84		0.5D			0.031B							
0.84 - 1		0.26D							4D	50	21	25
1 - 1.2		0.4D							13D	42	22	22
1.2 - 1.3		0.58D							14D	25	28	32

[illegible]

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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++) - 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
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 (%)
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