Project Name: CAN
Project Code: CAN **Site ID:** CP160 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	**Locality:**	
Date Desc.:	01/01/79	**Elevation:**	18 metres
Map Ref.:	Sheet No. : 9030 1:100000	**Rainfall:**	800
Northing/Long.:	150.743055555556	**Runoff:**	Very slow
Easting/Lat.:	-33.5875	**Drainage:**	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Terrace (alluvial)
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Valley flat	**Slope Category:**	Level
Slope:	0 %	**Aspect:**	45 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Red Kandosol

ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Gn2.1
Great Soil Group: Red earth

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

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

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.18 m	Reddish brown (5YR4/3-Moist); ; Loamy sand; Weak grade of structure, Granular; Very weak consistence; Field pH 6.4 (pH meter); Gradual change to -
A3	0.18 - 0.32 m	Reddish brown (5YR4/3-Moist); Light reddish brown (5YR6/3-Dry); ; Sandy loam; Weak grade of structure, Granular; Firm consistence; Field pH 6.2 (pH meter); Gradual change to -
B1	0.32 - 0.48 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam (Light); Weak grade of structure, Granular; Very strong consistence; Field pH 6.1 (pH meter); Gradual change to -
B2	0.48 - 0.7 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam; Weak grade of structure, Granular; Very strong consistence; Field pH 6.1 (pH meter); Diffuse change to -
B3	0.7 - 0.9 m	Dark red (2.5YR3/6-Moist); ; Fine sandy medium clay; Weak grade of structure, Granular; Very strong consistence; , Ferromanganiferous, , Soft segregations; Diffuse change to -
BC	0.9 - 1.2 m	Dark red (2.5YR3/6-Moist); ; Fine sandy medium clay; Weak grade of structure, Granular; Very strong consistence; , Ferromanganiferous, , Soft segregations; Field pH 6.1 (pH meter);
C	1.2 - 1.5 m	Dark red (2.5YR3/6-Moist); ; Fine sandy medium clay; Massive grade of structure; Very strong consistence;
C	1.5 - 1.7 m	Light red (2.5YR6/6-Moist); ; Fine sandy medium clay; Massive grade of structure; Very strong consistence; Field pH 6.3 (pH meter);

Morphological Notes

Observation Notes

HOLOCENE-LATE QUATERNARY ALLUV:

Site Notes

RICHMOND

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.18	6.4A	0.04A	1.5K	0.6	0.52	0	3.9B	6.5J		0.00
0.18 - 0.32	6.2A	0.04A	1.8K	0.52	0.33	0	5B	7.6J		0.00
0.32 - 0.48	6.1A	0.04A	1.9K	0.3	0.35	0	0.4B	3J		0.00
0.48 - 0.7	6.1A	0.04A	2.3K	0.32	0.35	0	2.5B	5.5J		0.00
0.9 - 1.2	6.1A	0.03A	2.3K	0.34	0.28	0.02	2.7B	5.6J		0.36
1.5 - 1.7	6.3A	0.03A	3.1K	0.67	0.31	0.05	2.9B	7.1J		0.70

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.18		0.82D							23D	47	16	14
0.18 - 0.32		0.54D							23D	44	16	17
0.32 - 0.48		0.34D							21D	43	15	21
0.48 - 0.7		0.22D							18D	42	15	24
0.9 - 1.2		0.09D							17D	40	17	26
1.5 - 1.7		0.08D							18D	39	14	29

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.18										
0.18 - 0.32										
0.32 - 0.48										
0.48 - 0.7										
0.9 - 1.2										
1.5 - 1.7										

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Laboratory Analyses Completed for this profile

13_C_FE	Extractable Fe(%) - Method recorded as C
13A1_AL	Oxalate-extractable aluminium
13A1_FE	Oxalate-extractable iron
13C1_AL	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
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