Project Name: CAN
Project Code: CAN **Site ID:** CP158 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: P.H. Walker
Locality: Bank of Hawkesbury near road Richmond to nth Richmond
Date Desc.: 07/08/79
Elevation: 10 metres
Map Ref.: Sheet No. : 9030 1:100000
Rainfall: 800
Northing/Long.: 150.721666666667
Runoff: No runoff
Easting/Lat.: -33.5844444
Drainage: Rapidly drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Pattern Type: Alluvial plain
Morph. Type: Ridge
Relief: No Data
Elem. Type: Levee
Slope Category: Very gently sloped
Slope: 0 %
Aspect: 45 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:
No Available Class Basic Stratic Rudosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc1.24
Great Soil Group: Alluvial soil

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

A	0 - 0.15 m	Dark brown (7.5YR3/2-Moist); ; Loamy sand; Massive grade of structure; Loose consistence; Clear change to -
A	0.15 - 0.4 m	Dark brown (7.5YR3/2-Moist); ; Loamy sand; Massive grade of structure; Loose consistence; Clear change to -
2A	0.4 - 0.58 m	Dark reddish brown (5YR3/2-Moist); ; Loamy sand (Heavy); Massive grade of structure; Weak consistence; Field pH 6.8 (pH meter);
A	0.58 - 0.9 m	Dark reddish brown (5YR3/2-Moist); ; Loamy sand (Heavy); Massive grade of structure; Weak consistence; Field pH 6.6 (pH meter);
A	0.9 - 1.2 m	Dark reddish brown (5YR3/2-Moist); ; Loamy sand (Heavy); Massive grade of structure; Weak consistence; Field pH 6.4 (pH meter);
A	1.2 - 1.5 m	Dark reddish brown (5YR3/2-Moist); ; Loamy sand (Heavy); Massive grade of structure; Weak consistence;

Morphological Notes

Observation Notes

0-40CM LATE FLOOD DEPOSIT:MODERN - HOLOCENE ALLUVIUM (LOWLANDS UNIT)

Site Notes

RICHMOND

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0.4 - 0.58	6.8A	0.04A	8.2K	1.1	0.14	0.07	3.2B	12.7J		0.55
0.58 - 0.9	6.6A	0.04A	7.4K	2	0.1	0.1	3.6B	13.2J		0.76
0.9 - 1.2	6.4A	0.02A	6.5K	1.3	0.11	0.09	5.2B	13.2J		0.68

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			%		
0.4 - 0.58		1.18D							7D	66	13	14
0.58 - 0.9		1.54D							9D	62	15	13
0.9 - 1.2		1.24D							6D	65	15	14

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
0.4 - 0.58									
0.58 - 0.9									
0.9 - 1.2									

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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