

**Project Name:** CAN  
**Project Code:** CAN      **Site ID:** CP138      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

<b>Desc. By:</b>	P.H. Walker	<b>Locality:</b>	Alluvial terrace along Cow Flat Creek
<b>Date Desc.:</b>	30/05/79	<b>Elevation:</b>	650 metres
<b>Map Ref.:</b>	Sheet No. : 8727 1:100000	<b>Rainfall:</b>	640
<b>Northing/Long.:</b>	149.055555555556	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-35.127777777778	<b>Drainage:</b>	No Data

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Terrace (alluvial)
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Valley flat	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	300 degrees

**Surface Soil Condition (dry):** Soft

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Brown Dermosol		<b>Principal Profile Form:</b>	Dy2.4
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow podzolic soil
All necessary analytical data are available.			

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

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

**Surface Coarse Fragments:** 20-50%, medium gravelly, 6-20mm, , Gravel

**Profile Morphology**

A11	0 - 0.06 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; , Granular; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 5.7 (pH meter); Gradual change to -
A12	0.06 - 0.13 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; , Granular; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Gradual change to -
A2	0.13 - 0.21 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; , Granular; Firm consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Gradual change to -
A3	0.21 - 0.31 m	Light yellowish brown (10YR6/4-Moist); ; Sandy loam; Massive grade of structure; Firm consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 6.3 (pH meter); Gradual change to -
A3	0.31 - 0.42 m	Light yellowish brown (10YR6/4-Moist); ; Sandy loam; Massive grade of structure; Firm consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Clear change to -
B1	0.42 - 0.57 m	Brownish yellow (10YR6/6-Moist); ; Clay loam; Massive grade of structure; Very strong consistence;
B2	0.57 - 0.69 m	Strong brown (7.5YR5/6-Moist); ; Light clay; , Subangular blocky; Very strong consistence; Field pH 6.7 (pH meter); Diffuse change to -
B3	0.69 - 0.81 m	Strong brown (7.5YR5/6-Moist); ; Light clay; , Subangular blocky; Very strong consistence; Diffuse change to -
C	0.81 - 0.96 m	Strong brown (7.5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Very strong consistence; Field pH 6.9 (pH meter); Diffuse change to -
C	0.96 - 1.12 m	Strong brown (7.5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Very strong consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments;

**Morphological Notes**

**Observation Notes**

PLEISTOCENE ALLUVIUM (SPRING UNIT)

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GOOROMON PONDS

**Site Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.06	5.7A	0.07A	3.1K	0.65	0.7	0.04	11.2B	15.7J		0.25
0.21 - 0.31	6.3A	0.02A	3.6K	0.4	0.2	0.05	1.7B	6J		0.83
0.57 - 0.69	6.7A	0.02A	4.9K	1.6	0.25	0.09	2.8B	9.6J		0.94
0.81 - 0.96	6.9A	0.01A	4.8K	1.9	0.25	0.09	3.1B	10.1J		0.89

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 - 0.06		2.16D						15	27D	26	21	11
0.21 - 0.31		0.25D						22	31D	21	17	9
0.57 - 0.69		0.25D						3	4D	37	30	26
0.81 - 0.96		0.12D							5D	44	26	25

[illegible]

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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_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