

**Project Name:** SC  
**Project Code:** SC **Site ID:** CP106 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

<b>Desc. By:</b>	P.H. Walker	<b>Locality:</b>	Mayfair just east of Bruneel Swamp: levee toeslope
<b>Date Desc.:</b>	19/12/78	<b>Elevation:</b>	1 metres
<b>Map Ref.:</b>	Sheet No. : 8928 1:100000	<b>Rainfall:</b>	1150
<b>Northing/Long.:</b>	150.663888888889	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-34.9111111111111	<b>Drainage:</b>	Poorly drained

**Geology**

<b>Exposure Type:</b>	No Data	<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>	Level plain <9m <1%	<b>Pattern Type:</b>	Flood plain
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Levee	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	270 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
No Available Class Stratic Oxyaquic Hydrosol		<b>Principal Profile Form:</b>	Um5.51
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Alluvial soil

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Sod grass, <0.25m, Closed or dense. \*Species includes - None recorded

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A	0 - 0.1 m	Black (10YR2/1-Moist); ; Loam (Sapric); Massive grade of structure; Moist; Weak consistence; Field pH 4.9 (pH meter); Gradual change to -
A	0.1 - 0.15 m	Black (10YR2/1-Moist); ; Loam (Sapric); Massive grade of structure; Moist; Weak consistence; Field pH 4.8 (pH meter); Clear change to -
D	0.15 - 0.2 m	Dark grey (5Y4/1-Moist); ; 7.5YR44, 2-10% ; , 2-10% ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Field pH 4.7 (pH meter); Diffuse change to -
D	0.2 - 0.3 m	Grey (5Y5/1-Moist); ; 10YR44, 0-2% ; , 0-2% ; Sand; Massive grade of structure; Moist; Very weak consistence; Field pH 5 (pH meter); Gradual change to -
D	0.3 - 0.4 m	Grey (5Y5/1-Moist); ; Sand; Massive grade of structure; Moist; Loose consistence; Field pH 4.8 (pH meter); Gradual change to -
D	0.4 - 0.5 m	Grey (5Y5/1-Moist); ; 2.5Y53, 2-10% ; , 2-10% ; Loamy sand; Massive grade of structure; Wet; Very weak consistence; Non-plastic; Non-sticky; Field pH 4.5 (pH meter); Gradual change to -
D	0.5 - 0.6 m	Grey (5Y5/1-Moist); ; 5Y20, 2-10% ; , 7.5YR56, 2-10% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Shells, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Field pH 4.7 (pH meter); Gradual change to -
D	0.6 - 0.7 m	Grey (5Y5/1-Moist); ; 5Y20, 20-50% ; , 20-50% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.6 (pH meter); Gradual change to -
D	0.7 - 0.8 m	Grey (5Y5/1-Moist); ; 5Y20, 10-20% ; , 10YR66, 10-20% ; Loamy sand; Wet; Very weak consistence; Slightly plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, rounded, dispersed, Shells, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 - 6 mm), Tubules; Field pH 4.3 (pH meter); Gradual change to -
D	0.8 - 0.9 m	Grey (5Y5/1-Moist); ; 2.5Y53, 10-20% ; , 10-20% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Tubules; Field pH 4.4 (pH meter); Clear change to -

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D	0.9 - 1 m	Dark grey (5Y4/1-Moist); , 5Y84, 2-10% ; , 2-10% ; Silty loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Tubules; Field pH 4.3 (pH meter); Gradual change to -
D	1 - 1.3 m	Dark grey (5Y4/1-Moist); , 5Y84, 2-10% ; , 2-10% ; Silty loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.4 (pH meter); Gradual change to -
D	1.3 - 1.6 m	Very dark grey (2.5Y3/0-Moist); , 10YR44, 0-2% ; , 0-2% ; Silty loam; Wet; Very weak consistence; Moderately plastic; Moderately sticky; Field pH 4.7 (pH meter); Gradual change to -
D	1.6 - 1.9 m	Very dark grey (2.5Y3/0-Moist); , 10YR44, 0-2% ; , 0-2% ; Silty loam; Wet; Very weak consistence; Moderately plastic; Moderately sticky; 2-10%, dispersed, Shells, coarse fragments; Field pH 4.9 (pH meter); Gradual change to -
D	1.9 - 2 m	Very dark grey (2.5Y3/0-Moist); , 10YR44, 0-2% ; , 0-2% ; Silty loam; Wet; Very weak consistence; Moderately plastic; Moderately sticky; 2-10%, dispersed, Shells, coarse fragments; Field pH 4.9 (pH meter); Gradual change to -

**Morphological Notes**

**Observation Notes**

ALLUVIAL LEVEE SEDIMENTS

**Site Notes**

BRUNDEE

**Observation ID: 1**

[illegible]

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1 - 1.3  
1.3 - 1.6  
1.6 - 1.9  
1.9 - 2

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**Laboratory Analyses Completed for this profile**

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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