SC **Project Name:** 

**Project Code:** SC Site ID: **CP106** Observation ID: 1

**Agency Name: CSIRO Division of Soils (NSW)** 

**Site Information** 

P.H. Walker Locality: Mayfair just east of Brunee Swamp:levee toeslope

Desc. By: Date Desc.: Elevation: 19/12/78 1 metres Sheet No.: 8928 1:100000 Map Ref.: Rainfall: 1150 Northing/Long.: 150.663888888889 Runoff: Very slow Easting/Lat.: -34.9111111111111 Drainage: Poorly drained

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: **Substrate Material:** Porous, Unconsolidated material No Data

Aspect:

(unidentified)

270 degrees

**Land Form** 

Rel/Slope Class: Level plain <9m <1% Pattern Type: Flood plain Morph. Type: Lower-slope Relief: No Data Elem. Type: Levee Slope Category: Very gently sloped

1 % Surface Soil Condition (dry): Soft

**Erosion:** 

Slope:

**Soil Classification** 

**Australian Soil Classification: Mapping Unit:** N/A No Available Class Stratic Oxyaquic Hydrosol **Principal Profile Form:** Um5.51 **ASC Confidence: Great Soil Group:** 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 -
Α	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

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

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Depth	рН	1:5 EC	Exc Ca	hangeable Mg	Cations K	E: Na	xchangeabl Acidity	e CEC	E	ECEC	E	SP
m		dS/m	Ca	wig	K	Cmol (+)/					9	6
0 - 0.1 0.1 - 0.15 0.15 - 0.2 0.2 - 0.3 0.3 - 0.4	4.9A 4.8A 4.7A 5A 4.8A	0.92A 0.71A 0.59A 0.24A 0.2A										
0.4 - 0.5 0.5 - 0.6	4.5A 4.7A	0.2A 0.31A 0.4A										
0.6 - 0.7 0.7 - 0.8 0.8 - 0.9	4.6A 4.3A 4.4A	0.46A 0.56A 1A										
0.9 - 1 1 - 1.3	4.3A 4.4A	2A 3.1A										
1.3 - 1.6 1.6 - 1.9 1.9 - 2	4.7A 4.9A 4.9A	4.4A 4.6A 3.9A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		article :	Size A FS	nalysis Silt (	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		•
0 - 0.1 0.1 - 0.15 0.15 - 0.2 0.2 - 0.3		19.1D 10.3D 5.1D 0.95D							5D 3D 2D	15 15 13	23 29 30	25 34 45
0.3 - 0.4 0.4 - 0.5 0.5 - 0.6		0.65D 0.66D 1.44D							49D	36	10	7
0.6 - 0.7 0.7 - 0.8 0.8 - 0.9		1.32D 0.78D 1.34D							8D	69	13	10
0.9 - 1 1 - 1.3 1.3 - 1.6 1.6 - 1.9		1.31D 1.89D 3.46D 3.52D							2D	49	27	20
1.9 - 2		3.94D							0D	34	37	23
Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar						K sa	t I	K unsat	
m				g/g	g - m3/m3	1			mm/l	h	mm/h	
0 - 0.1 0.1 - 0.15 0.15 - 0.2												

0.1 - 0.15 0.15 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1

Project Name: Project Code: Agency Name: SC

SC Site ID: CP1 CSIRO Division of Soils (NSW) CP106 Observation ID: 1

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

Project Name: SC

Project Code: SC Site ID: CP106 Observation ID: 1

Agency Name: CSIRO Division of Soils (NSW)

## **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