CAN **Project Name:**

Project Code: CAN Site ID: **CP109** 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: 20/12/78 1 metres Map Ref.: Sheet No.: 8737 1:100000 Rainfall: 1150 Northing/Long.: 150.663888888889 Runoff: Very slow -34.9111111111111 Drainage: Poorly drained Easting/Lat.:

Geology

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

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

(unidentified)

Land Form

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

Aspect: <1 % 270 degrees Slope:

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Uf1.41 No Available Class Stratic Oxyaquic Hydrosol **Principal Profile Form: 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 - Shrub, , Sparse. *Species includes - None recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Α	0 - 0.1 m	Dark grey (5Y4/1-Moist); , 5Y21, 2-10%; , 10YR56, 2-10%; Light medium clay; Massive grade of structure; Moist; Very firm consistence; Field pH 5.1 (pH meter); Gradual change to -
Α	0.1 - 0.2 m	Dark grey (5Y4/1-Moist); , 5Y42, 2-10%; , 10YR56, 2-10%; Light medium clay; Massive grade of structure; Wet; Very weak consistence; Moderately plastic; Slightly sticky; Field pH 5.6 (pH meter); Clear change to -
D	0.2 - 0.3 m	Grey (5Y5/1-Moist); , 10YR56, 0-2%; , 0-2%; Sandy loam; Massive grade of structure; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 5.8 (pH meter); Gradual change to -
D	0.3 - 0.4 m	Grey (5Y5/1-Moist); , 10YR56, 0-2%; , 0-2%; Loamy sand; Massive grade of structure; Wet; Very weak consistence; Non-plastic; Non-sticky; Field pH 5.9 (pH meter); Gradual change to -
D	0.4 - 0.5 m	Olive grey (5Y5/2-Moist); , 10YR56, 0-2%; , 0-2%; Sand; Massive grade of structure; Wet; Very weak consistence; Non-plastic; Non-sticky; Field pH 5.3 (pH meter); Gradual change to -
D	0.5 - 0.6 m	Dark grey (5Y4/1-Moist); , 2.5Y54, 2-10%; , 2-10%; Loamy sand; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.6 (pH meter); Gradual change to -
D	0.6 - 0.7 m	Dark grey (5Y4/1-Moist); , 2.5Y54, 2-10%; , 2-10%; Loamy sand; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.5 (pH meter); Clear change to -
D	0.7 - 0.8 m	Dark grey (2.5Y4/0-Moist); , 2.5Y54, 20-50%; , 5Y84, 20-50%; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Tubules; Field pH 4.6 (pH meter); Clear change to -
D	0.8 - 0.9 m	Very dark grey (2.5Y3/0-Moist); , 2.5Y42, 2-10%; , 2-10%; Fine sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 4.7 (pH meter); Gradual change to -
D	0.9 - 1 m	Very dark grey (2.5Y3/0-Moist); , 2.5Y42, 2-10%; , 2-10%; Fine sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 4.4 (pH meter); Gradual change to -
	1 - 1.2 m	Very dark grey (2.5Y3/0-Moist); , 10YR33, 0-2%; , 0-2%; Silty loam; Very weak consistence; Slightly plastic; Moderately sticky; Field pH 4.7 (pH meter); Gradual change to -

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Very dark grey (2.5Y3/0-Moist); , 10YR33, 0-2%; , 0-2%; Silty loam; Very weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 5.1 (pH meter); Gradual change to -1.2 - 1.4 m

Very dark grey (2.5Y3/0-Moist); , 10YR33, 0-2%; , 0-2%; Silty loam; Very weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse 1.4 - 1.6 m

fragments; Field pH 5.5 (pH meter);

Morphological Notes

Observation Notes

ALLUVIAL SEDIMENTS

Site Notes

BRUNDEE

CAN

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Project Name: Project Code: Agency Name:

Laboratory Test Results	t Results:
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<u>Laboratory</u>	Test Re	esults:										
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na Ex	changeable Acidity	CEC	EC	CEC	E	SP
m		dS/m		9		Cmol (+)/					(%
0 - 0.1	5.1A	2.2A										
0.1 - 0.2	5.6A	1.7A										
0.2 - 0.3	5.8A	1.3A										
0.3 - 0.4	5.9A	1.6A										
0.4 - 0.5	5.3A	2.2A										
0.5 - 0.6	4.6A	2.8A										
0.6 - 0.7	4.5A	3.4A										
0.7 - 0.8	4.6A	4.2A										
0.8 - 0.9	4.7A	4.7A										
0.9 - 1	4.4A	5.4A										
1 - 1.2	4.7A	6.4A										
1.2 - 1.4	5.1A	7A										
1.4 - 1.6	5.5A	7.8A										
Depth	CaCO3	Organic	Avail. P	Total	Total	Total	Bulk				alysis	
m	%	C %	mg/kg	P %	N %	K %	Density Mg/m3	GV		-S %	Silt	Clay
	70	70	mg/ng	70	70	70	Wig/III0			70		
0 - 0.1		5.41D							1D	21	31	38
0.1 - 0.2		1.26D							6D	28	28	36
0.2 - 0.3		0.54D							38D	35	13	15
0.3 - 0.4		0.26D										
0.4 - 0.5		0.34D										
0.5 - 0.6		0.7D										
0.6 - 0.7		1.19D							15D	64	12	10
0.7 - 0.8		1.65D										
0.8 - 0.9		1.92D							8D	56	19	16
0.9 - 1		2.49D										
1 - 1.2		3.36D										
1.2 - 1.4		3.46D										
1.4 - 1.6		3.59D							2D	25	42	25
Depth	COLE		Grav	/imetric/Vo	lumetric W	ater Conte	ents		K sat	K	unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar	_		_	
m				g/g	g - m3/m3	;			mm/h	ı	nm/h	
0 - 0.1												
0.1 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6												
0.6 - 0.7												

^{0.6 - 0.7} 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1 - 1.2 1.2 - 1.4 1.4 - 1.6

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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