Project Name: SC
Project Code: SC **Site ID:** CP107 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: P.H. Walker
Date Desc.: 19/12/78
Map Ref.: Sheet No. : 8737 1:100000
Northing/Long.: 150.663888888889
Easting/Lat.: -34.9111111111111
Locality: Mayfair just east of Brunee Swamp:levee toeslope
Elevation: 1 metres
Rainfall: 1150
Runoff: Very slow
Drainage: Poorly drained

Geology

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

Land Form

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

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
No Available Class Stratic Oxyaquic Hydrosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Um5.51
Great Soil Group: Alluvial soil

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

A	0 - 0.1 m	Black (10YR2/1-Moist); ; Clay loam (Sapric); Massive grade of structure; Moist; Weak consistence; Field pH 4.8 (pH meter); Clear change to -
D	0.1 - 0.13 m	Dark grey (5Y4/1-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Firm consistence; Field pH 4.6 (pH meter); Abrupt change to -
D	0.13 - 0.2 m	Grey (5Y5/1-Moist); ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; Field pH 4.7 (pH meter); Gradual change to -
D	0.2 - 0.3 m	Grey (5Y5/1-Moist); , 10YR44, 2-10% , Faint; , 2-10% , Faint; Loamy sand; Massive grade of structure; Moist; Very weak consistence; Field pH 4.5 (pH meter); Gradual change to -
D	0.3 - 0.4 m	Grey (5Y5/1-Moist); , 10YR44, 2-10% , Faint; , 2-10% , Faint; Loamy sand; Massive grade of structure; Moist; Very weak consistence; Field pH 4.2 (pH meter); Gradual change to -
D	0.4 - 0.5 m	Dark grey (5Y4/1-Moist); , 5Y84, 2-10% ; , 10YR43, 2-10% ; Sandy loam; Massive grade of structure; Wet; Very weak consistence; Slightly plastic; Slightly sticky; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Tubules; Field pH 4.3 (pH meter); Gradual change to -
D	0.5 - 0.65 m	Dark grey (5Y4/1-Moist); , 5Y84, 2-10% ; , 10YR43, 2-10% ; Fine sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Tubules; Field pH 4.4 (pH meter); Gradual change to -
D	0.65 - 0.7 m	Dark grey (5Y4/1-Moist); , 5Y84, 2-10% ; , 10YR33, 2-10% ; Silty loam; Wet; Very weak consistence; Moderately plastic; Moderately sticky; Common (10 - 20 %), Ferruginous, Very coarse (20 - 60 mm), Tubules; Field pH 4.2 (pH meter); Gradual change to -
D	0.7 - 0.8 m	Very dark grey (5Y3/0-Moist); , 5Y84, 2-10% ; , 2-10% ; Silty loam; Wet; Very weak consistence; Moderately plastic; Moderately sticky; Common (10 - 20 %), Ferruginous, Very coarse (20 - 60 mm), Tubules; Field pH 4.2 (pH meter); Gradual change to -
D	0.8 - 0.9 m	Very dark grey (5Y3/0-Moist); , 5Y84, 10-20% ; , 10-20% ; Silty loam; Wet; Very weak consistence; Moderately plastic; Moderately sticky; Common (10 - 20 %), Ferruginous, Very coarse (20 - 60 mm), Tubules; Field pH 4.2 (pH meter); Gradual change to -

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D	0.9 - 1 m	Very dark grey (5Y3/0-Moist); , 5Y84, 10-20% ; , 10-20% ; Silty loam; Wet; Very weak consistence; Moderately plastic; Moderately sticky; Common (10 - 20 %), Ferruginous, Very coarse (20 - 60 mm), Tubules; Field pH 4.2 (pH meter); Gradual change to -
D	1 - 1.2 m	Very dark grey (5Y3/0-Moist); , 5Y84, 0-2% ; , 0-2% ; Silty loam; Wet; Very weak consistence; Moderately plastic; Moderately sticky; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Tubules; Field pH 4.2 (pH meter); Gradual change to -
D	1.2 - 1.4 m	Very dark grey (5Y3/0-Moist); , 2.5Y43, 0-2% ; , 0-2% ; Silty loam; Wet; Very weak consistence; Moderately plastic; Moderately sticky; Field pH 4.3 (pH meter); Gradual change to -
D	1.4 - 1.6 m	Very dark grey (5Y3/0-Moist); , 0-2% ; , 0-2% ; Silty loam; Wet; Very weak consistence; Moderately plastic; Moderately sticky; Field pH 5 (pH meter); Gradual change to -
D	1.6 - 1.8 m	Very dark grey (5Y3/0-Moist); ; Silty loam; Wet; Very weak consistence; Moderately plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 6.2 (pH meter);

Morphological Notes

Observation Notes

ALLUVIAL TOESLOPE SEDIMENTS

Site Notes

BRUNEE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	4.8A	1.7A								
0.1 - 0.13	4.6A	1.2A								
0.13 - 0.2	4.7A	0.49A								
0.2 - 0.3	4.5A	0.56A								
0.3 - 0.4	4.2A	0.67A								
0.4 - 0.5	4.3A	1.1A								
0.5 - 0.65	4.4A	1.5A								
0.65 - 0.7	4.2A	2A								
0.7 - 0.8	4.2A	2.5A								
0.8 - 0.9	4.2A	2.6A								
0.9 - 1	4.2A	2.9A								
1 - 1.2	4.2A	4A								
1.2 - 1.4	4.3A	5.1A								
1.4 - 1.6	5A	5.7A								
1.6 - 1.8	6.2A	5.8A								

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 - 0.1		11.7D							3D	17	32	33
0.1 - 0.13		2.44D							6D	27	27	36
0.13 - 0.2		0.48D										
0.2 - 0.3		0.54D							30D	49	12	11
0.3 - 0.4		0.66D										
0.4 - 0.5		1.21D										
0.5 - 0.65		1.33D										
0.65 - 0.7		1.64D							1D	54	22	20
0.7 - 0.8		1.77D										
0.8 - 0.9		1.58D										
0.9 - 1		1.55D							3D	57	21	18
1 - 1.2		2.24D										
1.2 - 1.4		3.77D										
1.4 - 1.6		4.03D										
1.6 - 1.8		3.65D							0D	24	46	25

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 - 0.1									
0.1 - 0.13									
0.13 - 0.2									
0.2 - 0.3									
0.3 - 0.4									
0.4 - 0.5									
0.5 - 0.65									
0.65 - 0.7									
0.7 - 0.8									
0.8 - 0.9									
0.9 - 1									

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1 - 1.2
1.2 - 1.4
1.4 - 1.6
1.6 - 1.8

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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