

Project Name: SAM
Project Code: SAM **Site ID:** B424 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	23/12/59	Elevation:	43 metres
Map Ref.:	Sheet No. : 9443 1:100000	Rainfall:	1016
Northing/Long.:	152.883888888889	Runoff:	Very slow
Easting/Lat.:	-27.36	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Auger boring, 1.1 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Terrace (alluvial)
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Terrace flat	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Natric Grey Kurosol		Principal Profile Form:	Dy5.43
ASC Confidence:		Great Soil Group:	Humic gley

All necessary analytical data are available.

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

Vegetation:

Tall Strata - Tussock grass, <0.25m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); ; Silty loam; Strong grade of structure, 2-5 mm, Granular; Wet; Very plastic; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.4 (pH meter); AbundantClear change to -
A2g	0.1 - 0.18 m	Grey (2.5Y6/1-Moist); ; Silty loam; Massive grade of structure; Weak grade of structure, 10-20 mm, Angular blocky; Wet; Moderately plastic; 0-2%, rounded, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.8 (pH meter); Clear change to -
B21g	0.18 - 0.28 m	Grey (2.5Y5/1-Moist); ; 7.5YR58, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Medium heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Wet; Very plastic; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.4 (pH meter); Gradual change to -
B22g	0.28 - 0.48 m	Dark grey (10YR4/1-Moist); ; 7.5YR58, 20-50% , 5-15mm, Distinct; , 5B61, 20-50% , 5-15mm, Distinct; Heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Wet; Very plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.2 (pH meter); FewGradual change to -
B31g	0.51 - 0.81 m	Dark grey (5Y4/0-Moist); , 2.5Y68, 20-50% , 5-15mm, Distinct; , 5B61, 20-50% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Wet; Very plastic; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.8 (pH meter); FewDiffuse change to -
B32g	0.81 - 1.07 m	Dark grey (5Y4/0-Moist); , 2.5Y68, 20-50% , 5-15mm, Distinct; , 5B61, 20-50% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Wet; Very plastic; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Diffuse change to -
C	1.12 - 1.27 m	Light grey (2.5Y7/1-Moist); , 7.5YR58, 10-20% , 5-15mm, Distinct; , 5YR44, 10-20% , 5-15mm, Distinct; Light clay; Massive grade of structure; Wet; Very plastic; 10-20%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Very many (50 - 100 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Field pH 8.3 (pH meter);

Project Name: SAM
Project Code: SAM **Site ID:** B424 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

C 1.32 - 1.52 m Brownish yellow (10YR6/8-Moist); , 2.5Y81, 10-20% , 15-30mm, Distinct; , 10-20% , 15-30mm, Distinct; Heavy clay; Wet; Very plastic; 2-10%, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, , Soft segregations; Field pH 8.2 (pH meter);

Morphological Notes

Observation Notes

0-10CM POROUS GRANULAR STRUCTURE.

Site Notes

SAMFORD EAST

Project Name: SAM
Project Code: SAM Site ID: B424 Observation ID: 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
							(+)/kg		
0 - 0.1	5.4H	0.02B	2.9K	2.2	0.27	0.27	6.7D		
0.1 - 0.18	5.8H	0.02B							
0.18 - 0.28	5.4H	0.05B	3.5K	3.5	0.11	0.92	8.5D		
0.28 - 0.48	5.2H	0.11B							
0.51 - 0.81	7.8H	0.16B	4.7K	4.7	0.13	3	0D		
0.81 - 1.07	8.3H	0.16B							
1.12 - 1.27	8.3H	0.13B							
1.32 - 1.52	8.2H	0.11B							

[illegible][illegible]

Project Name: SAM
Project Code: SAM **Site ID:** B424 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - 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
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded