

Project Name: Regional
Project Code: REG **Site ID:** T146 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G. Smith	Locality:	14.4KM north of Balfes Creek on track running north to Tandanus:
Date Desc.:	26/08/70	Elevation:	No Data
Map Ref.:	Sheet No. : 8057 1:100000	Rainfall:	610
Northing/Long.:	145.85	Runoff:	Moderately rapid
Easting/Lat.:	-20.1166666666667	Drainage:	Imperfectly drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Tf	Substrate Material:	Undisturbed soil core, 1.7 m deep,Mudstone

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Mesotrophic Yellow Kandosol		Principal Profile Form:	Gn2.61
ASC Confidence:		Great Soil Group:	Yellow earth
No analytical data are available but confidence is fair.			

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus melanophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.05 m	Very dark grey (10YR3/1-Moist); Grey (10YR5/1-Dry); ; Sandy loam (Heavy); Massive grade of structure; Dry; Very firm consistence; Few, coarse (>5mm) roots; Clear change to -
A12	0.05 - 0.1 m	Brown (10YR5/3-Moist); Pale brown (10YR6/3-Dry); ; Sandy clay loam; Massive grade of structure; Dry; Very firm consistence; Many, fine (1-2mm) roots; Gradual change to -
B1	0.1 - 0.2 m	Yellowish brown (10YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Sandy clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Few, fine (1-2mm) roots; Gradual change to -
B1	0.2 - 0.3 m	Brownish yellow (10YR6/5-Moist); Light yellowish brown (10YR6/4-Dry); ; Sandy clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Gradual change to -
B1	0.3 - 0.4 m	Brownish yellow (10YR6/5-Moist); ; Sandy clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Gradual change to -
B21	0.4 - 0.5 m	Brownish yellow (10YR6/5-Moist); , 10YR68, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Sandy medium clay; Massive grade of structure; Dry; Very firm consistence; Gradual change to -
B22	0.5 - 0.6 m	Brownish yellow (10YR6/5-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light clay; Massive grade of structure; Dry; Strong consistence; Gradual change to -
B22	0.6 - 0.7 m	Brownish yellow (10YR6/5-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light clay; Massive grade of structure; Dry; Strong consistence; Gradual change to -
C1	0.7 - 0.8 m	Light yellowish brown (2.5Y6/4-Moist); , 10YR68, 10-20% , 5-15mm, Prominent; , 10-20% , 5-15mm, Prominent; Light clay; Massive grade of structure; Dry; Strong consistence; Gradual change to -
C2	0.8 - 0.9 m	Light brownish grey (2.5Y6/3-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light medium clay; Massive grade of structure; Dry; Strong consistence; Gradual change to -

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0.9 - 1 m	Light brownish grey (2.5Y6/3-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 50-100 mm, Prismatic; Strong consistence; Clear change to -
1 - 1.2 m	Light brownish grey (2.5Y6/2-Moist); , 10YR68, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Medium clay; Massive grade of structure; Strong consistence; Gradual change to -
1.2 - 1.4 m	, 10YR68, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Heavy clay; Strong consistence; Clear change to -
1.4 - 1.5 m	Grey (5Y6/1-Moist); , 10YR68, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Strong consistence; Clear change to -

Morphological Notes

HC with no mottling then into indurated claystone at 175CM:

Observation Notes

90-100CM HARDENED MOTTLING:

Site Notes

BALFE'S CK

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.05	6.4A	0.026A							
0.05 - 0.1	6.5A	0.02A							
0.1 - 0.2	6.2A	0.017A							
0.2 - 0.3	5.6A	0.02A							
0.3 - 0.4	6A	0.017A							
0.4 - 0.5	6.3A	0.017A							
0.5 - 0.6	6.3A	0.017A							
0.6 - 0.7	7.1A	0.02A							
0.7 - 0.8	7.5A	0.023A							
0.8 - 0.9	7.6A	0.032A							
0.9 - 1	7.5A	0.041A							
1 - 1.2	7.4A	0.077A							
1.2 - 1.4	7.9A	0.154A							
1.4 - 1.5	8.4A	0.223A							

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Laboratory Analyses Completed for this profile

3A1 EC of 1:5 soil/water extract
4A1 pH of 1:5 soil/water suspension