

Project Name: Regional
Project Code: REG **Site ID:** T141 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G. Smith	Locality:	16KM north of Balfes Creek on track running north to Tandanus:2.2KM north of gate:
Date Desc.:	25/08/70	Elevation:	No Data
Map Ref.:	Sheet No. : 8057 1:100000	Rainfall:	610
Northing/Long.:	145.833333333333	Runoff:	Moderately rapid
Easting/Lat.:	-20.1	Drainage:	Imperfectly drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Tf	Substrate Material:	Undisturbed soil core, Sandstone

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Rises
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	13 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Mesotrophic Brown Kandosol		Principal Profile Form:	Gn2.21
ASC Confidence:		Great Soil Group:	Yellow earth
All necessary analytical data are available.			

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

Vegetation:

Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Eucalyptus setosa, Acacia species
 Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus similis

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); Dark yellowish brown (10YR4/5-Dry); ; Sandy clay loam (Light); Weak grade of structure, 5-10 mm, Platy; Dry; Strong consistence; Few, fine (1-2mm) roots; Gradual change to -
A12	0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); Brown (10YR5/3-Dry); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Firm consistence; Few, fine (1-2mm) roots; Gradual change to -
A3	0.2 - 0.3 m	Strong brown (7.5YR4/6-Moist); Reddish yellow (7.5YR6/6-Dry); ; Sandy clay loam (Light); Massive grade of structure; Dry; Firm consistence; Gradual change to -
A3	0.3 - 0.4 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Gradual change to -
A3	0.4 - 0.5 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Gradual change to -
A3	0.5 - 0.6 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay loam (Heavy); Massive grade of structure; Dry; Strong consistence; Gradual change to -
B1	0.6 - 0.7 m	Brownish yellow (10YR6/6-Moist); ; Sandy clay loam (Heavy); Massive grade of structure; Dry; Strong consistence; Gradual change to -
B2	0.7 - 0.8 m	Brownish yellow (10YR6/5-Moist); ; Sandy medium clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; Gradual change to -
B2	0.8 - 0.9 m	Brownish yellow (10YR6/5-Moist); ; Sandy medium clay; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 10-20%, subrounded, Sandstone, coarse fragments; Gradual change to -
B2	0.9 - 1.2 m	Brownish yellow (10YR6/5-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 50-90%, reoriented, Sandstone, coarse fragments; , Manganiferous, , Nodules; Gradual change to -

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B2	1.2 - 1.5 m	Brownish yellow (10YR6/5-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 50-90%, reoriented, Sandstone, coarse fragments; , Manganiferous, , Nodules; Gradual change to -
	1.5 - 1.6 m	Brown (10YR4/3-Moist); ; Sandy loam; Massive grade of structure; Strong consistence; 20-50%, Sandstone, coarse fragments;

Morphological Notes

Observation Notes

90-150CM MAINLY LATERITISED SST FRAGMENTS AND MN NODULES ON CONCRETIONS:

Site Notes

BALFE'S CK

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[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO ₄ Digest
12_HF_FE	Total element - Fe(%) - HF/HClO ₄ Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO ₄ Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO ₄ Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)