

Project Name: Regional
Project Code: REG **Site ID:** T286 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	Mission Beach Road:.4KM west of Feluga Road:
Date Desc.:	22/08/80	Elevation:	25 metres
Map Ref.:	Sheet No. : 8162 1:100000	Rainfall:	4000
Northing/Long.:	146.016666666667	Runoff:	Moderately rapid
Easting/Lat.:	-17.916666666667	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial fan
Morph. Type:	Upper-slope	Relief:	4 metres
Elem. Type:	Fan	Slope Category:	Gently inclined
Slope:	2 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn3.34
		Great Soil Group:	Red podzolic soil

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

Vegetation:

Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Acacia species, Bassia species

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Melaleuca viridiflora

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, Cast; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments;
A3	0.1 - 0.2 m	Brown (10YR4/3-Moist); , 10YR54, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy clay loam (Light); Weak grade of structure, 2-5 mm, Cast; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Gradual change to -
B1	0.2 - 0.3 m	Reddish yellow (5YR6/8-Moist); , 10YR63, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Gradual change to -
B2	0.3 - 0.6 m	Yellowish red (5YR5/6-Moist); , 10YR65, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Gradual change to -
B2	0.6 - 0.9 m	Dark red (2.5YR3/6-Moist); , 10YR82, 20-50% , 5-15mm, Prominent; , 10YR76, 20-50% , 5-15mm, Prominent; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Diffuse change to -
B2	0.9 - 1.2 m	Yellow (10YR8/5-Moist); , 10YR82, 10-20% , 5-15mm, Faint; , 5YR58, 10-20% , 5-15mm, Faint; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Moist; Very firm consistence;
B2	1.2 - 1.5 m	Yellow (10YR8/5-Moist); , 10YR82, 10-20% , 5-15mm, Faint; , 5YR58, 10-20% , 5-15mm, Faint; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Moist; Very firm consistence;
	1.5 - 1.8 m	White (10YR8/2-Moist); , 2.5YR36, 10-20% , 5-15mm, Prominent; , 10YR66, 10-20% , 5-15mm, Prominent; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments;

Morphological Notes

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FROM 60CM RED MOTTLES ARE HARDENED

Site Notes

MISSION BCH RD

Observation Notes

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[illegible]

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Laboratory Analyses Completed for this profile

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
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no 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
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
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
MIN_EC	Exchange Capacity - Minerology
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 (%)
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gb	Gibbsite - X-Ray Diffraction
XRD_C_K2O	K ₂ O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction