

Project Name: Regional
Project Code: REG **Site ID:** T380 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	24/11/83	Elevation:	15 metres
Map Ref.:	Sheet No. : 8061 1:100000	Rainfall:	2250
Northing/Long.:	145.897222222222	Runoff:	Very slow
Easting/Lat.:	-18.2208333333333	Drainage:	Rapidly drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Terrace (alluvial)
Morph. Type:	Ridge	Relief:	2 metres
Elem. Type:	Channel bench	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Regolithic Orthic Tenosol		Principal Profile Form:	Uc1.12
ASC Confidence:		Great Soil Group:	No suitable group
All necessary analytical data are available.			

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A	0 - 0.1 m	Yellowish brown (10YR5/4-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Sandy loam (Light); Weak grade of structure, 2-5 mm, Cast; Earthy fabric; Moderately moist; Very weak consistence; Common, fine (1-2mm) roots; Clear, Smooth change to -
D	0.1 - 0.2 m	Very pale brown (10YR7/4-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; Few, fine (1-2mm) roots; Clear, Smooth change to -
2Ab	0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); Mottles, 0-0% ; Mottles, 0-0% ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Common, fine (1-2mm) roots; Gradual, Wavy change to -
2Bb	0.3 - 0.6 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR78, 10-20% , 5-15mm, Faint; Mottles, 10-20% , 5-15mm, Faint; Fine sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Few, coarse (>5mm) roots;
2Bb	0.6 - 0.9 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR78, 10-20% , 5-15mm, Faint; Mottles, 10-20% , 5-15mm, Faint; Fine sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Few, coarse (>5mm) roots;
2Bb	0.9 - 1.2 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR78, 10-20% , 5-15mm, Faint; Mottles, 10-20% , 5-15mm, Faint; Fine sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Few, coarse (>5mm) roots; Diffuse, Wavy change to -
2Cb	1.2 - 1.5 m	Light yellowish brown (10YR6/4-Moist); Yellow (10YR7/6-Dry); Mottles, 0-0% ; Mottles, 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Common, medium (2-5mm) roots;
2Cb	1.5 - 1.8 m	Light yellowish brown (10YR6/4-Moist); Yellow (10YR7/6-Dry); Mottles, 0-0% ; Mottles, 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Common, medium (2-5mm) roots;

Morphological Notes

Observation Notes

YELLOW MOTTILING IS LENSES OF FINE SAND:

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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_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 salts
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
17A1	Total potassium - X-ray fluorescence
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
6B3	Total organic carbon - high frequency induction furnace, infrared
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)
9H1	Phosphate retention
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 (%)