

Project Name: Regional
Project Code: REG **Site ID:** T208 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	Tully Heads Road 2.4KM east of Lower Tully Hotel 40M south of road:
Date Desc.:	17/10/73	Elevation:	5 metres
Map Ref.:	Sheet No. : 8162 1:100000	Rainfall:	3000
Northing/Long.:	146.033333333333	Runoff:	Very slow
Easting/Lat.:	-18	Drainage:	Very poorly drained

Geology

Exposure Type:	Soil pit	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:	Alluvial plain
Morph. Type:	Closed Depression	Relief:	No Data
Elem. Type:	Swamp	Slope Category:	Level
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Dystrophic Mottled Redoxic Hydrosol		Principal Profile Form:	Dy5.21
ASC Confidence:		Great Soil Group:	Humic gley
All necessary analytical data are available.			

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Sedge, 0.51-1m, Closed or dense. *Species includes - None recorded
Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Acacia mangium, Panicum species
Tall Strata - Tree, 20.01-35m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Clay loam (Sapric); Strong grade of structure, 5-10 mm, Angular blocky; Wet; Slightly plastic; Normal plasticity; Gradual change to -
A2	0.1 - 0.2 m	Dark grey (10YR4/1-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Angular blocky; Wet; Slightly plastic; Normal plasticity; Clear change to -
B21	0.2 - 0.3 m	Light brownish grey (2.5Y6/2-Moist); , 10YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Wet; Very plastic; Normal plasticity;
B21	0.3 - 0.45 m	Light brownish grey (2.5Y6/2-Moist); , 10YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Wet; Very plastic; Normal plasticity;
B22	0.45 - 0.6 m	Strong brown (7.5YR5/8-Moist); , 2.5Y71, 20-50% , 0-5mm, Prominent; , 20-50% , 0-5mm, Prominent; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Wet; Very plastic; Normal plasticity; Diffuse change to -
B22	0.6 - 0.9 m	Strong brown (7.5YR5/8-Moist); , 2.5Y71, 20-50% , 0-5mm, Prominent; , 20-50% , 0-5mm, Prominent; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Wet; Very plastic; Normal plasticity;
B3	0.9 - 1.2 m	Light brownish grey (2.5Y6/2-Moist); ; Sandy medium clay; Wet; Very plastic; Normal plasticity; Clear change to -
	1.2 - 1.5 m	Greyish brown (10YR5/2-Moist); , 10YR58, 2-10% , 5-15mm, Prominent; , 2-10% , 5-15mm, Prominent; Heavy clay; Very plastic; Normal plasticity;

Morphological Notes

Observation Notes

2CM A0 LEAF LITTER:MANY PROMINENT YB ROOT CHANNELS IN A AND B21 HORIZON

Site Notes

LOWER TULLY

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
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
17A1	Total potassium - X-ray fluorescence
2A1	Air-dry moisture content
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
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)
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_II	Illite - X-Ray Diffraction
XRD_C_K2O	K ₂ O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction