

Project Name: TUI
Project Code: TUI **Site ID:** T205 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	1.75KM from Tully Heads turn off on Hull River Road:
Date Desc.:	15/10/73	Elevation:	10 metres
Map Ref.:	Sheet No. : 8162 1:100000	Rainfall:	3050
Northing/Long.:	146.066666666667	Runoff:	No runoff
Easting/Lat.:	-18	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QR	Substrate Material:	Soil pit, 1.1 m deep,Sand

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Beach ridge plain
Morph. Type:	Flat	Relief:	2 metres
Elem. Type:	Beach ridge	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Humosequic Aeris Podosol		Principal Profile Form:	Uc5.11
ASC Confidence:		Great Soil Group:	Podzol
All necessary analytical data are available.			

Site Disturbance:

Vegetation:

Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia aulacocarpa, Xanthorrhoea species
Tall Strata - Tree, 20.01-35m, Mid-dense. *Species includes - Eucalyptus polycarpa, Eucalyptus tessellaris,
Trigonella
suavissima

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Many, fine (1-2mm) roots;
A1	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Many, fine (1-2mm) roots;
B	0.2 - 0.3 m	Very dark brown (10YR2/3-Moist); ; Sand; Single grain grade of structure; Loose consistence; Common, medium (2-5mm) roots; Clear change to -
B	0.3 - 0.4 m	Very dark brown (10YR2/3-Moist); ; Sand; Single grain grade of structure; Loose consistence; Common, medium (2-5mm) roots;
BC	0.4 - 0.6 m	Dark yellowish brown (10YR3/4-Moist); Dark yellowish brown (10YR4/4-Dry); ; Sand; Single grain grade of structure; Loose consistence; Few, fine (1-2mm) roots; Gradual change to -
BC	0.6 - 0.9 m	Yellowish brown (10YR5/6-Moist); ; Coarse sand; Single grain grade of structure; Loose consistence; Few, fine (1-2mm) roots;
BC	0.9 - 1.05 m	Yellowish brown (10YR5/6-Moist); ; Coarse sand; Single grain grade of structure; Loose consistence; Clear change to -
C	1.05 - 1.2 m	Light yellowish brown (10YR6/4-Moist); ; Sand; Single grain grade of structure; Loose consistence;

Morphological Notes

Observation Notes

FROM 60-105CM SAND IS NOT WELL SORTED UP TO 7MM SIZE

Site Notes

HULL RIVER

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Laboratory Test Results:

Depth m	pH	1:5 EC	Exchangeable Cations			Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
		dS/m	Ca	Mg	K					
0 - 0.1	5.8A	<0.5A	1.69H	0.5	<0.01	0.03	0.24F	2.1A	2.5F	1.43
0.1 - 0.2	5.6A	<0.05A								
0.2 - 0.3	5.6A	<0.05A	0.05H	<0.01	<0.01	0.02	0.44F	0.9A	0.5F	2.22
0.3 - 0.4	5.7A	<0.05A								
0.4 - 0.6	5.7A	<0.05A								
0.6 - 0.9	5.8A	<0.05A								
0.9 - 1.05	6.1A	<0.05A								
1.05 - 1.2	6.1A	<0.05A								

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Laboratory Analyses Completed for this profile

12_HF_CU	Total element - Cu(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
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
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
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 (%)