

Project Name: CSS
Project Code: CSS **Site ID:** NT90 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NT)

Site Information

Desc. By:	Malcolm J. Wright	Locality:	
Date Desc.:	19/10/61	Elevation:	No Data
Map Ref.:		Rainfall:	0
Northing/Long.:	134.157777777778	Runoff:	Moderately rapid
Easting/Lat.:	-20.164444444445	Drainage:	Imperfectly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Sand plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	%	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Red Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Red earth

No analytical data are available but confidence is fair.

Site Disturbance:

Vegetation:

Mid Strata - Shrub, , . *Species includes - None recorded

Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.03 m	; Sandy loam (Light); 2-5 mm, Platy; Weak consistence; 10-20%, fine gravelly, 2-6mm, Other, coarse fragments;
0.03 - 0.1 m	; Sandy loam (Light); Massive grade of structure; Firm consistence; 10-20%, fine gravelly, 2-6mm, Other, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
0.1 - 0.25 m	; Sandy loam; Massive grade of structure; Firm consistence; 10-20%, fine gravelly, 2-6mm, Other, coarse fragments; Common, fine (1-2mm) roots; Gradual change to -
0.25 - 0.54 m	Reddish brown (2.5YR5/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Very firm consistence; 2-10%, fine gravelly, 2-6mm, Other, coarse fragments; Gradual change to -
0.54 - 0.84 m	; Sandy clay loam; Strong consistence; 50-90%, fine gravelly, 2-6mm, Other, coarse fragments;
0.84 - 1.07 m	; Sandy clay loam; Very weak consistence; 20-50%, fine gravelly, 2-6mm, Gravel, coarse fragments;
1.07 - 1.45 m	; Medium clay; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments;
1.45 - 1.75 m	Red (10R4/6-Moist); , 10YR6/4, 10-20% , 0-5mm; , 10-20% , 0-5mm; Medium clay; Massive grade of structure; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

TENNANT CREEK

Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.03	6.3H	0.006C							
0.03 - 0.1	5.9H	0.017C							
0.1 - 0.25	6.3H	0.011C							
0.25 - 0.54	6.6H	0.014C							
0.54 - 0.84	6.3H	0.023C							
0.84 - 1.07	6.3H	0.03C							
1.07 - 1.45	6.5H	0.026C							
1.45 - 1.75	7H	0.015C							

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size FS	Analysis	
								GV	CS		Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.03				0.015F	0.022B	0.1B		3	42C	47	3	7
0.03 - 0.1					0.018B			6	43C	32	3	9
0.1 - 0.25												
0.25 - 0.54												
0.54 - 0.84				0.011F	0.019B	0.3B		9	35C	43	4	16
0.84 - 1.07												
1.07 - 1.45												
1.45 - 1.75				0.008F	0.017B	0.15B		23	30C	31	9	26

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.03										
0.03 - 0.1										
0.1 - 0.25										
0.25 - 0.54										
0.54 - 0.84										
0.84 - 1.07										
1.07 - 1.45										
1.45 - 1.75										

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Laboratory Analyses Completed for this profile

17A_NR	Total element - K(%) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded