Project Name: **Regional**
Project Code: **REG** **Site ID:** **T217** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: G.G. Murtha
Locality: 2.7KM north of Pope's Homestead on road to Cape Cleveland:
Date Desc.: 03/12/73
Elevation: 2 metres
Map Ref.: Sheet No. : 8359 1:100000
Rainfall: 1400
Northing/Long.: 147.022777777778
Runoff: Slow
Easting/Lat.: -19.3291666666667
Drainage: Very poorly drained

Geology

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

Land Form

Rel/Slope Class: No Data
Pattern Type: Stagnant alluvial plain
Morph. Type: No Data
Relief: 0 metres
Elem. Type: Plain
Slope Category: No Data
Slope: 0 %
Aspect: 0 degrees

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Episodic Epipedal Aquic Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.28
Great Soil Group: Grey clay

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Sedge, 0.51-1m, Mid-dense. *Species includes - None recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.02 m	Light grey (10YR7/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Platy; Dry; Strong consistence;
A12	0.02 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very strong consistence;
A12	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); , 2.5YR46, 2-10% ; , 2-10% ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence;
B2	0.2 - 0.3 m	Dark grey (10YR4/1-Moist); , 2.5YR46, 10-20% , 5-15mm, Prominent; , 5YR53, 10-20% , 5-15mm, Prominent; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Slightly plastic; Normal plasticity;
B2	0.3 - 0.45 m	Dark grey (10YR4/1-Moist); , 2.5YR46, 10-20% , 5-15mm, Prominent; , 5YR53, 10-20% , 5-15mm, Prominent; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Slightly plastic; Normal plasticity; Diffuse change to -
B2	0.45 - 0.6 m	Dark grey (10YR4/1-Moist); , 10YR66, 2-10% , 5-15mm, Prominent; , 2-10% , 5-15mm, Prominent; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Moderately plastic; Normal plasticity;
D	0.6 - 0.9 m	Dark grey (10YR4/1-Moist); , 10YR66, 2-10% , 5-15mm, Prominent; , 2-10% , 5-15mm, Prominent; Heavy clay; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Wet; Very plastic; Normal plasticity;
D	0.9 - 1.05 m	Dark grey (10YR4/1-Moist); , 10YR71; , 10YR66; Fine sandy medium clay; Massive grade of structure; Wet; Very plastic; Normal plasticity; Very sticky;

Morphological Notes

Observation Notes

20-45CM LENSES OF PB FINE SAND IN CRACKS BETWEEN MAJOR STRUCTURAL UNITS:

Site Notes

CAPE CLEVELAND

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.02	5.7A	0.431A	5.4B	8.4	1.2	1.7				
0 - 0.1	5.7A	0.431A	5.4B	8.4	1.2	1.7				
0.1 - 0.2	6A	0.369A								
0.2 - 0.3	5.7A	0.5A	6.1B	9.5	1.2	2				
0.3 - 0.45	5.7A	0.66A								
0.45 - 0.6	5.6A	0.72A								
0.6 - 0.9	5.3A	0.681A	6.2B	9.4	0.95	2.2				
0.9 - 1.05	5.1A	0.77A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02		1.4D	38.7B		0.11A			0	1A	34	25	41
0 - 0.1		1.4D	38.7B		0.11A			0	1A	34	25	41
0.1 - 0.2												
0.2 - 0.3			22.1B					0	1A	25	24	50
0.3 - 0.45												
0.45 - 0.6												
0.6 - 0.9			7.2B					0	1A	35	19	46
0.9 - 1.05												

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 - 0.02									
0 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.45									
0.45 - 0.6									
0.6 - 0.9									
0.9 - 1.05									

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Laboratory Analyses Completed for this profile

12_HF_CU	Total element - Cu(mg/kg) - HF/HClO4 Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO4 Digest
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
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 (%)