Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **14** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 22/06/90
Map Ref.: Sheet No. : 8257 GPS
Northing/Long.: 7774324 AMG zone: 55
Easting/Lat.: 460575 Datum: AGD66
Locality:
Elevation: 320 metres
Rainfall: No Data
Runoff: No runoff
Drainage: Well drained

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Undisturbed soil core, Sandstone

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Crest
Elem. Type: Summit surface
Slope: 0 %
Pattern Type: Plain
Relief: No Data
Slope Category: Level
Aspect: 0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Dystrophic Red Kandosol Medium Non-gravelly Sandy Clay-loamy Moderately deep
Mapping Unit: N/A
Principal Profile Form: Gn2.11

ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: Red earth

Site Disturbance: Limited clearing, for example selective logging

Vegetation:
Low Strata - , , . *Species includes - None recorded
Mid Strata - , , . *Species includes - Acacia shirleyi, Acacia species
Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - Acacia shirleyi, Acacia species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.18 m	Reddish brown (5YR4/3-Moist); ; Loamy fine sand; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.8 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.18 - 0.35 m	Yellowish red (5YR4/6-Moist); ; Fine sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moderately moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, subangular, dispersed, Ferricrete, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 5 (Raupach, 0.3); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B21c	0.35 - 0.8 m	Red (2.5YR4/8-Moist); Substrate influence, 2.5YR58, 0-2% , 5-15mm, Distinct; Substrate influence, 0-2% ; Fine sandy clay loam (Heavy); Weak grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Moderately moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, Ferricrete, coarse fragments; Many (20 - 50 %), Organic (humified), Medium (2 -6 mm), Veins; , Calcareous, , ; , Gypseous, , ; Field pH 5 (Raupach, 0.6); Field pH 4.5 (Raupach, 0.8); Few, fine (1-2mm) roots; Clear, Smooth change to -
C	0.8 - 0.9 m	Red (2.5YR5/8-Moist); Substrate influence, 2.5Y78, 2-10% , 5-15mm, Distinct; Substrate influence, 2-10% ; , Calcareous, , ; , Gypseous, , ;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.18	5.2A		2.7B	0.36	0.16	0.04				
0.18 - 0.35	4.5A									
0.35 - 0.8	4.6A		0.26B	0.16	0.05	0.04		4.3I		0.93
			0.4J	0.2	0	0.2				4.65
0.8 -	5A									

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 - 0.18												
0.18 - 0.35												
0.35 - 0.8												
0.8 -												

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 - 0.18									
0.18 - 0.35									
0.35 - 0.8									
0.8 -									

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
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
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension