Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **105** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 20/08/90
Map Ref.: Sheet No. : 8159 GPS
Northing/Long.: 7853574 AMG zone: 55
Easting/Lat.: 439043 Datum: AGD66
Locality:
Elevation: 380 metres
Rainfall: No Data
Runoff: Rapid
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 5 %
Pattern Type: Rises
Relief: No Data
Slope Category: Gently inclined
Aspect: 240 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Brown Chromosol Medium Non-gravelly Loamy Clayey Moderately deep
Mapping Unit: N/A
Principal Profile Form: Dy2.22

ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: No suitable group

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Heteropogon contortus, Chrysopogon fallax, Eragrostis species Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eucalyptus erythrophloia, Ficus species

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia, Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.04 m	Very dark grey (10YR3/1-Moist); ; Coarse sandy loam; Weak grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Many, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.04 - 0.08 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.08 - 0.2 m	Brown (10YR5/3-Moist); ; Coarse sandy clay loam (Light); Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Common, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.2 - 0.7 m	Yellowish brown (10YR5/6-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Granulite, coarse fragments; Many (20 - 50 %), Organic (humified), , Veins; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.3); Field pH 7.8 (Raupach, 0.7); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
C	0.7 - 0.75 m	; Moderately moist; , 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							%
0.04 - 0.08	6.5A		3.3B	0.83	0.27	0.03				
0.2 - 0.7	6.4A		6B	1.9	0.04	0.12		10.1I		1.19
			6.2J	2.1	0.2	0.2				1.98
0.7 -	7.1A									

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			%		
0.04 - 0.08												
0.2 - 0.7												
0.7 -												

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
0.04 - 0.08									
0.2 - 0.7									
0.7 -									

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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