Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **302** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 04/07/91
Map Ref.: Sheet No. : 8157 GPS
Northing/Long.: 7785962 AMG zone: 55
Easting/Lat.: 443259 Datum: AGD66
Locality:
Elevation: 240 metres
Rainfall: No Data
Runoff: Very slow
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 2 %
Pattern Type: Rises
Relief: No Data
Slope Category: Very gently sloped
Aspect: 110 degrees

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification: Haplic Eutrophic Red Dermosol Thin Slightly gravelly Clayey Clayey Shallow
Mapping Unit: N/A
Principal Profile Form: Uf6.32
ASC Confidence: All necessary analytical data are available.
Great Soil Group: No suitable

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - Bothriochloa pertusa, Bothriochloa ewartiana, Heteropogon contortus Mid Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus erythrophloia Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra, Eucalyptus papuana

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, angular, Granodiorite

Profile Morphology

A1	0 - 0.05 m	Very dark brown (10YR2/2-Moist); ; Light clay (Light); Massive grade of structure; Earthy fabric; Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05); Clear, Smooth change to -
B21	0.05 - 0.18 m	Dark brown (7.5YR3/2-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, angular, dispersed, Granodiorite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Abrupt, Smooth change to -
B22	0.18 - 0.32 m	Dark reddish brown (5YR3/3-Moist); ; Light medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.3); Clear, Smooth change to -
C	0.32 - 0.7 m	; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.7);

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 - 0.05	7.3A									
0.18 - 0.32	8.3A		28.1J	2.7	0.4	0.1		32.5l		0.31
0.32 - 0.7	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 - 0.05												
0.18 - 0.32												
0.32 - 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 - 0.05										
0.18 - 0.32										
0.32 - 0.7										

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Laboratory Analyses Completed for this profile

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