Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **689** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M.G. Cannon	**Locality:**	
Date Desc.:	30/07/91	**Elevation:**	350 metres
Map Ref.:	Sheet No. : 8158 GPS	**Rainfall:**	No Data
Northing/Long.:	7818459 AMG zone: 55	**Runoff:**	No Data
Easting/Lat.:	445072 Datum: AGD66	**Drainage:**	No Data

Geology

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

Land Form

Rel/Slope Class:	Undulating hills 90-300m 3-10%	**Pattern Type:**	Hills
Morph. Type:	Lower-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Very gently sloped
Slope:	2 %	**Aspect:**	110 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Hyperbasic Pedal Hypercalcic Calcarosol Moderately gravelly Clay-loamy Medium Clay-loamy Shallow

Mapping Unit: N/A
Principal Profile Form: Um5.61

ASC Confidence:
No analytical data are available but confidence is fair.

Great Soil Group: Rendzina

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Bothriochloa pertusa, Cenchrus ciliaris
Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Lysiphillum carronii, Terminalia oblongata
Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus erythrophloia

Surface Coarse Fragments: 20-50%, coarse gravelly, 20-60mm, subrounded, Limestone

Profile Morphology

A1	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.05);
B21	0.05 - 0.18 m	Brown (10YR4/3-Moist); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous;
B/C	0.18 - 0.28 m	Pale brown (10YR6/3-Moist); ; Moderate grade of structure, 5-10 mm, Angular blocky; Very many (50 - 100 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous;
C	0.28 - 1.3 m	; Massive grade of structure; Very many (50 - 100 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.9);

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	7.9A									
0.28 - 1.3	8.6A									

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												
0.28 - 1.3												

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										
0.28 - 1.3										

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Laboratory Analyses Completed for this profile

4A1	pH of 1:5 soil/water suspension