Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **683** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M.G. Cannon
Date Desc.: 29/07/91
Map Ref.: Sheet No. : 8158 GPS
Northing/Long.: 7812314 AMG zone: 55
Easting/Lat.: 447426 Datum: AGD66
Locality:
Elevation: 340 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Morph. Type: No Data
Elem. Type: Hillslope
Slope: 1 %
Pattern Type: Rises
Relief: No Data
Slope Category: Very gently sloped
Aspect: 20 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Lithocalcic Hypercalcic Red Chromosol Thin Non-gravelly Clay-loamy Clayey Shallow
Mapping Unit: N/A
Principal Profile Form: Dr2.13
ASC Confidence:
No analytical data are available but confidence is fair.
Great Soil Group: Red-brown earth

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - Bothriochloa ewartiana, Bothriochloa pertusa, Heteropogon contortus Mid Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia, Eucalyptus

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.09 m	; Clay loam, sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05); Clear change to -
B21	0.09 - 0.25 m	; Medium heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Clear change to -
B22	0.25 - 0.38 m	; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Clear change to -
C	0.38 - 0.85 m	; Earthy fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Granodiorite, coarse fragments; Very many (50 - 100 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 9 (Raupach, 0.6);

Morphological Notes

Observation Notes

Site Notes

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Project Code: DLR **Site ID:** 683 **Observation ID:** 1
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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 - 0.09	6.4A									
0.25 - 0.38	7A									
0.38 - 0.85	8.2A									

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 - 0.09												
0.25 - 0.38												
0.38 - 0.85												

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 - 0.09										
0.25 - 0.38										
0.38 - 0.85										

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Laboratory Analyses Completed for this profile

4A1	pH of 1:5 soil/water suspension