Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **2369** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: Rogers, Gary
Date Desc.: 27/10/94
Map Ref.: Sheet No. : 7860 GPS
Northing/Long.: 7911960 AMG zone: 55
Easting/Lat.: 278620 Datum: AGD66

Locality:
Elevation: No Data
Rainfall: No Data
Runoff: Rapid
Drainage: Imperfectly drained

Geology

ExposureType: No Data
Geol. Ref.: No Data

Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 2 %

Pattern Type: Rises
Relief: No Data
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Sodic Eutrophic Brown Dermosol Thick Gravelly Loamy Clayey Moderately deep

Mapping Unit: N/A
Principal Profile Form: Dy2.23

ASC Confidence:
Confidence level not specified

Great Soil Group: Brown podzolic soil

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

Vegetation: Low Strata - Hummock grass, 0.26-0.5m, Very sparse. *Species includes - Triodia mitchelii, Aristida species, Panicum species Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus brownii, Petalostigma pubescens

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus brownii, Eucalyptus normantonensis

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, angular, Quartz

Profile Morphology

A11	0 - 0.05 m	Dark brown (7.5YR3/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; 20-50%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.03); Clear change to -
A12	0.05 - 0.25 m	Dark brown (7.5YR3/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; 20-50%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.15); Clear change to -
A2	0.25 - 0.4 m	Strong brown (7.5YR5/6-Moist); ; Sandy clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; 20-50%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.3); Abrupt change to -
B21	0.4 - 0.8 m	Dark brown (7.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; 50-90%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.6); Gradual change to -
BC	0.8 - 1.2 m	Strong brown (7.5YR5/8-Moist); ; Sandy clay loam; Dry; 50-90%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 1.1);

Morphological Notes

Observation Notes

Site Notes

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Project Code: DLR **Site ID:** 2369 **Observation ID:** 1
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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0.05 - 0.25	6.6A		1.9B	3.9	0.17	0.41				
0.25 - 0.4	7.7A									
0.8 - 1.2	9.5A									

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			%		
0.05 - 0.25												
0.25 - 0.4												
0.8 - 1.2												

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
0.05 - 0.25										
0.25 - 0.4										
0.8 - 1.2										

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Laboratory Analyses Completed for this profile

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
4A1	pH of 1:5 soil/water suspension