Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **2333** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M.G. Cannon
Date Desc.: 25/10/94
Map Ref.: Sheet No. : 7960 GPS
Northing/Long.: 7920748 AMG zone: 55
Easting/Lat.: 334078 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: Rapid
Drainage: Moderately well 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: Mid-slope
Elem. Type: Hillslope
Slope: 7 %
Pattern Type: Rises
Relief: No Data
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Mesotrophic Yellow Kandosol Thin Non-gravelly Sandy Clay-loamy Moderately deep
Mapping Unit: N/A
Principal Profile Form: Gn2.34
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: No suitable

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

Vegetation:

Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Themeda triandra, Aristida species
Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Eucalyptus species
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus persistens, Eucalyptus papuana

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, subangular, Quartz

Profile Morphology

A1	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Clear change to -
A21j	0.05 - 0.2 m	Yellowish brown (10YR5/4-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.8 (Raupach, 0.1); Gradual change to -
A22e	0.2 - 0.4 m	Light yellowish brown (10YR6/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.8 (Raupach, 0.4); Gradual change to -
B21	0.4 - 0.8 m	Olive yellow (2.5Y6/6-Moist); Mottles, 2.5Y68, 0-2% , 5-15mm, Distinct; Mottles, 0-2% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, subangular tabular, Sandstone, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.7); Clear change to -
BC	0.8 - 0.9 m	; , Calcareous, , ; , Gypseous, , ;

Morphological Notes

Observation Notes

Site Notes

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Project Code: DLR **Site ID:** 2333 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

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 - 0.05	6.1A		1.3B	1	0.35	0.14				
0.05 - 0.2	5.9A									
0.2 - 0.4	5.4A									
0.4 - 0.8	5.9A									

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												
0.05 - 0.2												
0.2 - 0.4												
0.4 - 0.8												

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										
0.05 - 0.2										
0.2 - 0.4										
0.4 - 0.8										

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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