Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **282** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M. DeCorte	**Locality:**	
Date Desc.:	20/06/91	**Elevation:**	340 metres
Map Ref.:	Sheet No. : 8157 GPS	**Rainfall:**	No Data
Northing/Long.:	7753208 AMG zone: 55	**Runoff:**	Very slow
Easting/Lat.:	447604 Datum: AGD66	**Drainage:**	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	**Pattern Type:**	Plain
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	Level
Slope:	1 %	**Aspect:**	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Yellow Kandosol Thin Non-gravelly Loamy Clay-loamy Moderately deep

Mapping Unit: N/A
Principal Profile Form: Gn2.32

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Great Soil Group: Yellow earth

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Chrysopogon fallax, Eragrostis species, Aristida

Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Petalostigma pubescens, Eucalyptus crebra, Melaleuca

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.07 m	Very dark greyish brown (10YR3/2-Moist); ; Loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
A2j	0.07 - 0.2 m	Brown (10YR5/3-Moist); Mottles, 7.5YR56, 10-20% , 0-5mm, Distinct; Mottles, 10-20% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.2 - 0.52 m	Brownish yellow (10YR6/6-Moist); Mottles, 7.5YR56, 0-2% , 0-5mm, Distinct; Mottles, 0-2% ; Clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.3); Abrupt, Smooth change to -
B22c	0.52 - 0.8 m	; Earthy fabric; Fine (1-2mm) macropores, , Calcareous, , ; , Gypseous, , ; Ferricrete, Uncemented, Continuous, Massive; Field pH 6.5 (Raupach, 0.6);

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 - 0.07	6.2A									
0.2 - 0.52	6.1A		2.8J	1.7	0.1	0.2		1.1I		18.18
0.52 - 0.8	6.3A									

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 - 0.07												
0.2 - 0.52												
0.52 - 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 - 0.07										
0.2 - 0.52										
0.52 - 0.8										

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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