Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **1421** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	Barry, Earl	**Locality:**	
Date Desc.:	17/09/92	**Elevation:**	No Data
Map Ref.:	Sheet No. : 8057 GPS	**Rainfall:**	No Data
Northing/Long.:	7744498 AMG zone: 55	**Runoff:**	Moderately rapid
Easting/Lat.:	348835 Datum: AGD66	**Drainage:**	Well drained

Geology

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

Land Form

Rel/Slope Class:	Undulating hills 90-300m 3-	**Pattern Type:**	Low hills
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Hillcrest	**Slope Category:**	Level
Slope:	1 %	**Aspect:**	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Brown Chromosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy2.61
Great Soil Group: Yellow podzolic soil

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

Vegetation: Low Strata - Tussock grass, <0.25m, Very sparse. *Species includes - Argemone species, Chrysopogon fallax
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus normantonensis, Eucalyptus shirleyi
Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus shirleyi, Eucalyptus normantonensis, Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Yellowish brown (10YR5/4-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.5 (Raupach, 0.05); Clear change to -
A2	0.08 - 0.3 m	Brownish yellow (10YR6/6-Moist); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5 (Raupach, 0.25); Diffuse change to -
B21	0.3 - 0.5 m	Yellowish brown (10YR5/8-Moist); ; Clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.4); Diffuse change to -
B22	0.5 - 0.6 m	Brownish yellow (10YR6/8-Moist); Mottles, 2.5YR48, 2-10% , 5-15mm, Prominent; Mottles, 2-10% ; Light clay; Weak grade of structure, 5-10 mm, Polyhedral; Dry; Very weak consistence; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6 (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 - 0.08	5.6A		0.75B	0.59	0.37	0.04				
0.5 - 0.6	5.5A		0.49B	4.5	0.32	0.33				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis	
		C	P	P	N	K	Density	GV CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%		
0 - 0.08											
0.5 - 0.6											

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 - 0.08										
0.5 - 0.6										

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension