Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **464** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	Barry, Earl	**Locality:**	
Date Desc.:	04/11/91	**Elevation:**	260 metres
Map Ref.:	Sheet No. : 8156 GPS	**Rainfall:**	No Data
Northing/Long.:	7720772 AMG zone: 55	**Runoff:**	No Data
Easting/Lat.:	438460 Datum: AGD66	**Drainage:**	No Data

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

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:**	No Data

Surface Soil Condition (dry): Surface crust, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Endocalcareous-Endohypersodic Epipedal Brown Vertosol
Non-gravelly Medium fine Medium fine Moderately deep

Mapping Unit: N/A
Principal Profile Form: Ug5.25

ASC Confidence:
All necessary analytical data are available.

Great Soil Group: Brown clay

Site Disturbance: Limited clearing, for example selective logging

Vegetation:
Low Strata - Tussock grass, 0.51-1m, Isolated plants. *Species includes - Sporobolus species
Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Terminalia oblongata
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Acacia argyrodendron, Lysiphillum carronii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.02 m	Brown (10YR4/3-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Angular blocky; , Calcareous, , ; , Gypseous, , ; Abrupt change to -
A12	0.02 - 0.4 m	Brown (10YR5/3-Moist); ; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.05); Clear change to -
B21	0.4 - 0.55 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; , Calcareous, , ; , Gypseous, , ; Gradual change to -
B22k	0.55 - 0.8 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Prismatic; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.8);

Morphological Notes

Observation Notes

Site Notes

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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 - 0.02	8.3A									
0.02 - 0.4	8.4A		15.1J	10.7	0.1	1.6		32.7I		4.89
0.55 - 0.8	7.8A		15.2J	11.5	0.1	5.4		29.8I		18.12

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 - 0.02												
0.02 - 0.4												
0.55 - 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 - 0.02									
0.02 - 0.4									
0.55 - 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