Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **1069** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: Rogers, Gary
Date Desc.: 22/04/92
Map Ref.: Sheet No. : 8156 GPS
Northing/Long.: 7693967 AMG zone: 55
Easting/Lat.: 438538 Datum: AGD66
Locality:
Elevation: 230 metres
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Sodic Eutrophic Red Dermosol Thick Non-gravelly Clayey Clayey Moderately deep
Mapping Unit: N/A
Principal Profile Form: Uf6.21

ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Red clay

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

Vegetation: Low Strata - Hummock grass, <0.25m, Isolated plants. *Species includes - TRIODIA SPECIES ?, Iseilema vaginiflorum, Aristida species Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eucalyptus papuana, Eucalyptus shirleyi

Tall Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eucalyptus papuana, Eucalyptus shirleyi

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.08 m	Dark reddish brown (5YR3/3-Moist); ; Fine sandy light clay; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.5 (Raupach, 0.05); Clear change to -
A12	0.08 - 0.3 m	Dark red (2.5YR3/6-Moist); Mottles, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Light clay; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.2); Clear change to -
B21	0.3 - 0.45 m	Dark red (10R3/6-Moist); Mottles, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Light medium clay; Strong grade of structure, Polyhedral; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.35); Clear change to -
B22	0.45 - 0.6 m	Greyish brown (10YR5/2-Moist); Mottles, 10R36, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Medium heavy clay; Strong grade of structure, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; , 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 Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.08	5.9A		1.5B	2.2	0.25	0.42				
0.08 - 0.3	6.1A									
0.3 - 0.45	5.9A									
0.45 - 0.6	5.7A		3.5B	8.5	0.03	2.1				

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 - 0.08												
0.08 - 0.3												
0.3 - 0.45												
0.45 - 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									
0.08 - 0.3									
0.3 - 0.45									
0.45 - 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