Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **233** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 06/06/91
Map Ref.: Sheet No. : 8257 GPS
Northing/Long.: 7773010 AMG zone: 55
Easting/Lat.: 483247 Datum: AGD66
Locality:
Elevation: 240 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 2 %
Pattern Type: Rises
Relief: No Data
Slope Category: Very gently sloped
Aspect: 130 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Eutrophic Red Chromosol Thin Non-gravelly Sandy Clayey Shallow
Mapping Unit: N/A
Principal Profile Form: Dr2.12
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: Non-calcic brown soil

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Bothriochloa pertusa
Mid Strata - , , . *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus erythrophloia, Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Reddish brown (5YR4/3-Moist); ; Loamy sand; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
B1	0.08 - 0.27 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Common, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.27 - 0.48 m	Red (2.5YR4/6-Moist); Substrate influence, 5YR58, 2-10% , 0-5mm, Prominent; Substrate influence, 2-10% ; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated, faint; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B/C	0.48 - 0.55 m	Dark red (2.5YR3/6-Moist); Substrate influence, 5YR58, 10-20% , 5-15mm, Prominent; Substrate influence, 10-20% ; Clay loam; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Granodiorite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Common, very fine (0-1mm) roots;

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	6.9A									
0.27 - 0.48	6.9A		7.4J	2.2	0.4	0.1		10.7I		0.93
0.48 - 0.55	7.3A									

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 - 0.08												
0.27 - 0.48												
0.48 - 0.55												

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										
0.27 - 0.48										
0.48 - 0.55										

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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