Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **279** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 20/06/91
Map Ref.: Sheet No. : 8257 GPS
Northing/Long.: 7755484 AMG zone: 55
Easting/Lat.: 450082 Datum: AGD66
Locality:
Elevation: 340 metres
Rainfall: No Data
Runoff: Very slow
Drainage: Well drained

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Undisturbed soil core, Igneous rock (unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 3 %
Pattern Type: Rises
Relief: No Data
Slope Category: Very gently sloped
Aspect: 260 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Chromosol Medium Non-gravelly Sandy Clayey Moderately deep
Mapping Unit: N/A
Principal Profile Form: Dr2.23
ASC Confidence:
All necessary analytical data are available.
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, Mid-dense. *Species includes - Chrysopogon fallax, Heteropogon contortus, Bothriochloa pertusa Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus erythrophloia

Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus crebra, Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.06 m	Brown (7.5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
A12	0.06 - 0.12 m	Dark brown (7.5YR3/2-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Common, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.12 - 0.22 m	Dark reddish brown (5YR3/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Common, fine (1-2mm) roots; Gradual, Smooth change to -
B1	0.22 - 0.38 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.38 - 0.75 m	Red (2.5YR4/6-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.6); Many, very fine (0-1mm) roots; Clear, Smooth change to -
B3	0.75 - 0.92 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.9); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
C	0.92 - 0.95 m	; , Calcareous, , ; , Gypseous, , ;

Morphological Notes

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Site Notes

Observation 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 - 0.06	6.5A		4.4B	1.8	0.5	0.04				
0.22 - 0.38	6.5A									
0.38 - 0.75	6.9A		14B	4.5	0.27	0.21		16.3I		1.29
			14J	4.9	0.3	0.3				1.84
0.75 - 0.95	7.5A									

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 - 0.06												
0.22 - 0.38												
0.38 - 0.75												
0.75 - 0.95												

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 - 0.06									
0.22 - 0.38									
0.38 - 0.75									
0.75 - 0.95									

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Laboratory Analyses Completed for this profile

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
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