Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **199** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 09/04/91
Map Ref.: Sheet No. : 8258 GPS
Northing/Long.: 7793248 AMG zone: 55
Easting/Lat.: 456283 Datum: AGD66
Locality:
Elevation: 280 metres
Rainfall: No Data
Runoff: Very rapid
Drainage: Imperfectly drained

Geology

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

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: Gently inclined
Aspect: 10 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Class Undetermined Grey Sodosol Thick Gravelly Loamy Clayey Moderately deep

Mapping Unit: N/A
Principal Profile Form: Dy3.43

ASC Confidence:
No analytical data and little or no knowledge of this soil.

Great Soil Group: Solodic 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, Eragrostis species, Heteropogon contortus Mid Strata - Shrub, 0.51-1m, Very sparse. *Species includes - Erythroxylon australe, Albizia basaltica

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, angular, Granodiorite

Profile Morphology

A11	0 - 0.12 m	Yellowish red (5YR3/6-Moist); Substrate influence, 10YR58, 20-50% , 0-5mm, Prominent; Substrate influence, 20-50% ; Sandy loam; Massive grade of structure; Smooth-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05); Abrupt, Smooth change to -
A12	0.12 - 0.28 m	Dark yellowish brown (10YR4/4-Moist); ; Loamy coarse sand; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.7 (Raupach, 0.2); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
A2c	0.28 - 0.3 m	Pale brown (10YR6/3-Moist); ; Loamy coarse sand; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Sharp, Tongued change to -
B2	0.3 - 0.6 m	Grey (10YR6/1-Moist); Mottles, 7.5YR58, 20-50% , 5-15mm, Prominent; Mottles, 20-50% ; Medium clay; Strong grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 9 (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 - 0.12	7.2A									
0.12 - 0.28	7.2A									
0.28 - 0.3	6.8A		2.5J	2.7	0.1	1.9		6.6I		28.79
0.3 - 0.6	6.9A									

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 - 0.12												
0.12 - 0.28												
0.28 - 0.3												
0.3 - 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 - 0.12										
0.12 - 0.28										
0.28 - 0.3										
0.3 - 0.6										

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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