Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **290** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 02/07/91
Map Ref.: Sheet No. : 8257 GPS
Northing/Long.: 7750956 AMG zone: 55
Easting/Lat.: 457903 Datum: AGD66
Locality:
Elevation: 260 metres
Rainfall: No Data
Runoff: Rapid
Drainage: Moderately well 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: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Rises
Relief: No Data
Slope Category: Very gently sloped
Aspect: 180 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Hypercalcic Hypernatric Brown Sodosol Medium Non-gravelly Sandy Clayey Moderately deep
Mapping Unit: N/A
Principal Profile Form: Dy2.43
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: Solodized solonetz

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

Vegetation:

Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Aristida species, Eragrostis species
Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Eremophila mitchellii, Erythroxylon australe
Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus brownii, Eucalyptus papuana

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark yellowish brown (10YR4/4-Moist); ; Loamy coarse sand; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Clear, Smooth change to -
A2j	0.1 - 0.14 m	Brownish yellow (10YR6/6-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Abrupt, Smooth change to -
B1	0.14 - 0.3 m	Yellowish brown (10YR5/6-Moist); ; Coarse sandy light medium clay; Strong grade of structure, 50-100 mm, Columnar; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Granulite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 0.3); Clear, Smooth change to -
B21k	0.3 - 0.8 m	Yellowish brown (10YR5/8-Moist); ; Coarse sandy light medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Granulite, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , ; Field pH 9.5 (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 - 0.1	5.9A									
0.14 - 0.3	9.1A									
0.3 - 0.8	9.1A		7J	6.7	0.2	5.3		17.6l		30.11

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 - 0.1												
0.14 - 0.3												
0.3 - 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 - 0.1										
0.14 - 0.3										
0.3 - 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