Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **129** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 04/09/90
Map Ref.: Sheet No. : 7957 GPS
Northing/Long.: 7738358 AMG zone: 55
Easting/Lat.: 317438 Datum: AGD66
Locality:
Elevation: 470 metres
Rainfall: No Data
Runoff: Slow
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Flat
Elem. Type: Plain
Slope: 1.5 %
Pattern Type: Rises
Relief: No Data
Slope Category: Level
Aspect: 60 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Mesotrophic Brown Kandosol Thin Non-gravelly Sandy Clay-loamy Deep
Mapping Unit: N/A
Principal Profile Form: Gn2.25

ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Yellow earth

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Aristida species, Heteropogon contortus, Chrysopogon fallax Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus crebra, Melaleuca nervosa, Bursaria incana

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Dark yellowish brown (10YR3/4-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Few, fine (1-2mm) roots; Diffuse, Smooth change to -
A2	0.06 - 0.24 m	Dark yellowish brown (10YR4/6-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
A3	0.24 - 0.5 m	Strong brown (7.5YR5/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B1	0.5 - 0.9 m	Strong brown (7.5YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Field pH 6.5 (Raupach, 0.9); Gradual, Smooth change to -
B2c	0.9 - 1.2 m	Yellowish brown (10YR5/8-Moist); ; Clay loam, sandy; Weak grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 1.2);
D	1.2 - 1.25 m	; 0-2%, coarse gravelly, 20-60mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ;

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 - 0.06	6.6A		0.99B	0.36	0.11	0.02				
0.24 - 0.5	6.2A									
0.5 - 0.9	6.4A		0.97B	1.2	0.18	0.04				
0.9 - 1.2	6A		1.1B	1.3	0.2	0.06		3I		2.00
			1.1J	1.3	0.2	0.1				3.33
1.2 -	6.1A									

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												
0.24 - 0.5												
0.5 - 0.9												
0.9 - 1.2												
1.2 -												

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									
0.24 - 0.5									
0.5 - 0.9									
0.9 - 1.2									
1.2 -									

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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
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