Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **93** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 08/08/90
Map Ref.: Sheet No. : 8156 GPS
Northing/Long.: 7707665 AMG zone: 55
Easting/Lat.: 429137 Datum: AGD66
Locality:
Elevation: 240 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: No Data

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Plain
Relief: No Data
Slope Category: Level
Aspect: 180 degrees

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Eutrophic Black Dermosol Medium Non-gravelly Clay-loamy Clayey Very deep
Mapping Unit: N/A
Principal Profile Form: Uf6.32

ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: Prairie soil

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

Vegetation: Low Strata - Shrub, 0.51-1m, Mid-dense. *Species includes - Sporobolus caroli, Eragrostis species
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia argyrodendron, Terminalia oblongata, Eremophila mitchellii

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Acacia argyrodendron, Eucalyptus brownii, Lysiphillum carronii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.03); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
A12	0.05 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.12 - 0.5 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Columnar; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.3); Common, fine (1-2mm) roots; Clear, Smooth change to -
B22	0.5 - 1.08 m	Dark yellowish brown (10YR4/6-Moist); Biological mixing, 10YR32, 10-20% , 5-15mm, Distinct; Biological mixing, 10-20% ; Clay loam; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 0.9); Clear, Smooth change to -
B23k	1.08 - 1.6 m	Yellowish brown (10YR5/4-Moist); ; Clay loam; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 1.2);

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 - 0.05	7A		12B	3	0.54	0.09				
0.12 - 0.5	8.1A		11.2J	5.9	0.1	0.5		20.6l		2.43
0.5 - 1.08	9.1A									
1.08 - 1.6	9.1A		18B	15	0.21	8.9		26B		34.23
			8.6E	13	0.23	6.6				25.38

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 - 0.05												
0.12 - 0.5												
0.5 - 1.08												
1.08 - 1.6												

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 - 0.05									
0.12 - 0.5									
0.5 - 1.08									
1.08 - 1.6									

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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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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