Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **69** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 25/07/90
Map Ref.: Sheet No. : 8058 GPS
Northing/Long.: 7803526 AMG zone: 55
Easting/Lat.: 387885 Datum: AGD66
Locality:
Elevation: 300 metres
Rainfall: No Data
Runoff: Very rapid
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: Gently undulating plains <9m 1-3%
Morph. Type: Flat
Elem. Type: Plain
Slope: 2 %
Pattern Type: Plain
Relief: No Data
Slope Category: Very gently sloped
Aspect: 120 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Mesotrophic Subnatric Black Sodosol Thick Moderately gravelly Clay-loamy Clayey Deep

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Mapping Unit: N/A
Principal Profile Form: Dd1.73
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, Isolated plants. *Species includes - Sporobolus caroli, Chloris species
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eremophila mitchellii, Erythroxylon australe, Terminalia oblongata

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus cambageana

Surface Coarse Fragments: 20-50%, fine gravelly, 2-6mm, rounded, Quartz

Profile Morphology

A1	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam (Light); Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.3 (Raupach, 0.05); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
A2j	0.15 - 0.3 m	Dark greyish brown (10YR4/2-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Common, medium (2-5mm) roots; Abrupt, Smooth change to -
B1	0.3 - 0.6 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Strong grade of structure, 50-100 mm, Columnar; Smooth-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.6); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.6 - 0.85 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Clear, Smooth change to -
B22	0.85 - 1.2 m	Pale brown (10YR6/3-Moist); ; Heavy clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 1.1); Abrupt, Smooth change to -
B23	1.2 - 1.4 m	Yellowish brown (10YR5/4-Moist); ; Coarse sandy heavy clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 5.5 (Raupach, 1.4);

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 - 0.15	6.3A		7.4B	4.1	0.24	0.15				
0.15 - 0.3	7.1A									
0.3 - 0.6	8.2A		6.7E	6.2	0.09	2.4		16B		15.00
			6.7J	5.7	0.1	1.1		14.8I		16.22
										6.88
										7.43
0.85 - 1.2	7.9A									
1.2 - 1.4	5.2A		5.2B	8.3	0.12	6.8		19B		35.79
			5.5E	8.6	0.11	5		13.7I		49.64
			3.8J	5.6	0.1	2.5				26.32
										36.50
										13.16
										18.25

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 - 0.15												
0.15 - 0.3												
0.3 - 0.6												
0.85 - 1.2												
1.2 - 1.4												

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 - 0.15									
0.15 - 0.3									
0.3 - 0.6									
0.85 - 1.2									
1.2 - 1.4									

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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