Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **57** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 23/07/90
Map Ref.: Sheet No. : 8058 GPS
Northing/Long.: 7790340 AMG zone: 55
Easting/Lat.: 371111 Datum: AGD66
Locality:
Elevation: 345 metres
Rainfall: No Data
Runoff: No runoff
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: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Plain
Relief: No Data
Slope Category: Level
Aspect: 90 degrees

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Sodic Eutrophic Grey Chromosol Medium Non-gravelly Clay-loamy Clayey Very deep

Mapping Unit: N/A
Principal Profile Form: Dy2.73

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Great Soil Group: Solodic soil

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

Vegetation:
Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded
Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eucalyptus brownii
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.12 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A2e	0.12 - 0.22 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B1	0.22 - 0.48 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.3); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21k	0.48 - 0.8 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 9 (Raupach, 0.6); Gradual, Smooth change to -
B22	0.8 - 1.05 m	Pale brown (10YR6/3-Moist); ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 9 (Raupach, 0.9); Abrupt, Smooth change to -
B23	1.05 - 2.2 m	Pale brown (10YR6/3-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Strong consistence; Few cutans, <10% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 4.5 (Raupach, 1.5);

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	6.7A		5.1B	4.3	0.24	0.57				
0.22 - 0.48	7.6A									
0.48 - 0.8	8.9A		9.8B	11	0.12	5.1		25B		20.40
			10E	10	0.12	3.8		26.7I		19.10
			16J	10.8	0.1	1.5				15.20
										14.23
										6.00
										5.62
0.8 - 1.05	8A		9.3B	10	0.1	5.4		25B		21.60
			9.1E	8.9	0.1	3.8				15.20
1.05 - 2.2	5A		8.9J	8.6	0.1	2.7		22.2I		12.16

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												
0.22 - 0.48												
0.48 - 0.8												
0.8 - 1.05												
1.05 - 2.2												

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 - 0.12									
0.22 - 0.48									
0.48 - 0.8									
0.8 - 1.05									
1.05 - 2.2									

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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
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