Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **540** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M.G. Cannon	**Locality:**	
Date Desc.:	19/06/91	**Elevation:**	No Data
Map Ref.:	Sheet No. : 8158 GPS	**Rainfall:**	No Data
Northing/Long.:	7789508 AMG zone: 55	**Runoff:**	Moderately rapid
Easting/Lat.:	416601 Datum: AGD66	**Drainage:**	Very poorly drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Plain
Morph. Type:	Crest	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	Level
Slope:	1 %	**Aspect:**	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Calcic Mottled-Subnatric Grey Sodosol Thick Non-gravelly Sandy Clayey Very deep

Mapping Unit: N/A
Principal Profile Form: Dy3.43

ASC Confidence:
All necessary analytical data are available.

Great Soil Group: Solodized solonetz

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Chrysopogon fallax, Phynchelytrum repens

Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Erythroxylon australe, Eremophila mitchellii, Lysiphillum carronii

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

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, rounded, Ferricrete

Profile Morphology

A11	0 - 0.05 m	Dark brown (7.5YR3/3-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05); Clear, Smooth change to -
A12	0.05 - 0.3 m	Strong brown (7.5YR5/6-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Manganiferous, , ; , Calcareous, , ; , Gypseous, , ; Field pH 5.8 (Raupach, 0.3); Abrupt, Wavy change to -
A2ec	0.3 - 0.55 m	Pinkish grey (7.5YR6/2-Moist); ; Massive grade of structure; Dry; Loose consistence; Very many (50 - 100 %), Manganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Abrupt, Irregular change to -
B21	0.55 - 0.8 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Prominent; Mottles, 20-50% ; Medium heavy clay; Moderate grade of structure, 100-200 mm, Columnar; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.6); Clear, Wavy change to -
B22	0.8 - 1.3 m	Brownish yellow (10YR6/8-Moist); Mottles, 10YR62, 20-50% , 15-30mm, Prominent; Mottles, 20-50% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.9); Clear, Wavy change to -
B23k	1.3 - 1.5 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR82, 10-20% , 15-30mm, Prominent; Mottles, 10-20% ; Medium heavy clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Nodules; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 1.5);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.05	6.2A									
0.05 - 0.3	5.8A									
0.55 - 0.8	7.1A		3.3J	7.5	0.1	1.8		13.9I		12.95
0.8 - 1.3	7.9A									
1.3 - 1.5	8.8A									

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												
0.05 - 0.3												
0.55 - 0.8												
0.8 - 1.3												
1.3 - 1.5												

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									
0.05 - 0.3									
0.55 - 0.8									
0.8 - 1.3									
1.3 - 1.5									

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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