Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **923** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M.G. Cannon	**Locality:**	
Date Desc.:	24/04/92	**Elevation:**	No Data
Map Ref.:	Sheet No. : 8156 GPS	**Rainfall:**	No Data
Northing/Long.:	7711589 AMG zone: 55	**Runoff:**	No Data
Easting/Lat.:	433288 Datum: AGD66	**Drainage:**	No Data

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:	Flat	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	Gently inclined
Slope:	2 %	**Aspect:**	No Data

Surface Soil Condition (dry): Cracking, Surface crust

Erosion:

Soil Classification

Australian Soil Classification: Epicalcareous Crusty Grey Vertosol Non-gravelly Medium fine Very fine Very deep

Mapping Unit: N/A

Principal Profile Form: Ug5.24

ASC Confidence: No analytical data are available but confidence is fair.

Great Soil Group: Grey clay

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Eulalia aurea (ex fulva), Aristida species, Aristida

Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 1.01-3m, Sparse. *Species includes - Terminalia oblongata, Owenia acidula

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.02 m	Dark grey (10YR4/1-Moist); ; Light medium clay; Weak grade of structure, <2 mm, Platy; Smooth-ped fabric; Dry; Very weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.02);
A12	0.02 - 0.2 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.2);
B21k	0.2 - 1 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.7);
B22	1 - 1.5 m	Greyish brown (2.5Y5/2-Moist); Mottles, 10YR58, 2-10% , 5-15mm, Prominent; Mottles, 2-10% ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9 (Raupach, 1.3);
B23	1.5 - 2.2 m	Pale brown (10YR6/3-Moist); Mottles, 10YR58, 20-50% , 5-15mm, Prominent; Mottles, 20-50% ; Heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Veins; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 1.7);

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B24	2.2 - 2.6 m	Pale brown (10YR6/3-Moist); Mottles, 10YR58, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Veins; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 2.5);

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							%
0.02 - 0.2	8.1A									
1 - 1.5	8.7A									
2.2 - 2.6	7.8A									

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			%		
0.02 - 0.2												
1 - 1.5												
2.2 - 2.6												

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
0.02 - 0.2										
1 - 1.5										
2.2 - 2.6										

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Laboratory Analyses Completed for this profile

4A1	pH of 1:5 soil/water suspension