

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 732 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	15/08/91	Elevation:	330 metres
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7807558 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	416421 Datum: AGD66	Drainage:	No Data

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, Granodiorite

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Rises
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	3 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Haplic Calcic Red Chromosol Thin Non-gravelly Clay-loamy Clayey Deep	Mapping Unit:	N/A
		Principal Profile Form:	Dr2.13
ASC Confidence:	Analytical data are incomplete but reasonable confidence.	Great Soil Group:	No suitable

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - Bothriochloa ewartiana, Phynchelytrum repens, Chrysopogon fallax
 erythrophloia Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus

Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A	0 - 0.05 m	Dark brown (7.5YR3/2-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear
B1	0.05 - 0.22 m	Yellowish red (5YR4/6-Moist); ; Clay loam, sandy; Weak grade of structure, 50-100 mm, Angular blocky; Earthy fabric; Dry; Firm consistence; , Calcareous, , , Gypseous, , ; Clear
B21	0.22 - 0.4 m	Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , Gypseous, , ; Field pH 7 (Raupach, 0.3);
B/C	0.4 - 0.65 m	Reddish brown (5YR4/4-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; , Calcareous, , , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.6); Gradual change to -
C	0.65 - 1.3 m	Brown (7.5YR5/4-Moist); ; Earthy fabric; Dry; Weak consistence; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9 (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
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			

0 - 0.05	6.6A
0.65 - 1.3	6.9A

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.05
0.65 - 1.3

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
0.65 - 1.3

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Laboratory Analyses Completed for this profile

4A1 pH of 1:5 soil/water suspension