

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 646 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	30/05/91	Elevation:	No Data
Map Ref.:	Sheet No. : 8159-2 GPS	Rainfall:	No Data
Northing/Long.:	7865591 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	421550 Datum: AGD66	Drainage:	Moderately well drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, Diorite

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	3 %	Aspect:	285 degrees

Surface Soil Condition (dry): Cracking, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Endocalcareous Epipedal Red Vertosol Non-gravelly Medium fine Very fine Moderately deep	Principal Profile Form:	Ug5.37
ASC Confidence:	Great Soil Group:	Red clay

No analytical data are available but confidence is fair.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - Bothriochloa species, Heteropogon contortus

Mid Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus papuana, Eucalyptus crebra

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

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear change to -
AB	0.1 - 0.18 m	Dark reddish brown (5YR3/3-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , , ; Few, fine (1-2mm) roots;
B2	0.18 - 0.6 m	Yellowish red (5YR4/6-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 8 (Raupach, 0.5); Few, fine (1-2mm) roots; Clear change to -
C	0.6 - 0.8 m	; Moderately moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersed, Igneous rock (unidentified), coarse fragments; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach,

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg	Acidity		%
0 - 0.1	6.5A								
0.18 - 0.6	6.4A								
0.6 - 0.8	8.6A								

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Laboratory Analyses Completed for this profile

4A1 pH of 1:5 soil/water suspension