

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2011 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	Bright, J (Mitch)	<b>Locality:</b>	
<b>Date Desc.:</b>	09/06/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8255 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7624179 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	474278 Datum: AGD66	<b>Drainage:</b>	Well drained

#### Geology

<b>Exposure Type:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Existing vertical exposure, No Data

#### Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	8 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Firm

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mottled Hypocalcic Red Dermosol Thin Non-gravelly Clayey Clayey Very deep	<b>Principal Profile Form:</b>	Uf6.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Red clay

No analytical data are available but confidence is fair.

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Cenchrus ciliaris, Aristida species  
 Mid Strata - , , . \*Species includes - None recorded  
 Tall Strata - Shrub, 1.01-3m, Sparse. \*Species includes - Phebalium glandulosum

**Surface Coarse Fragments:** 2-10%, medium gravelly, 6-20mm, subrounded, Ironstone

#### Profile Morphology

A1	0 - 0.05 m	Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, <2 mm, Subangular blocky; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Gradual change to -
B21	0.05 - 0.3 m	Dark red (10R3/6-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, <2 mm, Subangular blocky; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.2); Abrupt change to -
B22	0.3 - 0.6 m	Dark red (10R3/6-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, <2 mm, Subangular blocky; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.5); Gradual change to -
B23	0.6 - 1.6 m	Red (2.5YR4/6-Moist); Mottles, 7.5YR5/4, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, <2 mm, Subangular blocky; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 8 (Raupach, 1); Gradual change to -
C	1.6 - 2 m	; Light clay; Firm consistence; , Calcareous, , , , Gypseous, , , Soil matrix is Highly calcareous; Field pH 9 (Raupach, 1.7); Gradual change to -

#### 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 Cmol (+)/kg	Acidity				%	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	CS	Size FS	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat		
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
					g/g -	m3/m3				mm/h	mm/h	

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Laboratory Analyses Completed for this profile