

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 720 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M.G. Cannon	<b>Locality:</b>	
<b>Date Desc.:</b>	13/08/91	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>	Sheet No. : 8158 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7801456 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	420554 Datum: AGD66	<b>Drainage:</b>	No Data

#### 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>	Undisturbed soil core, Limestone

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	210 degrees

**Surface Soil Condition (dry):** Hardsetting, Cracking

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Pedal Hypercalcic Calcarosol Non-gravelly Clayey Medium Clayey Shallow		<b>Principal Profile Form:</b>	Ug5.12
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Rendzina

No analytical data are available but confidence is fair.

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:** Low Strata - , , . \*Species includes - None recorded  
Mid Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Eucalyptus erythrophloia  
Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - Eucalyptus erythrophloia

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A11	0 - 0.02 m	Very dark greyish brown (10YR3/2-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; , Gypseous, , ; Soil matrix is Highly calcareous; Clear change to -
A/B	0.02 - 0.22 m	Very dark grey (10YR3/1-Moist); ; Light medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, Limestone, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 - 6 mm), Concretions; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.05); Clear change to -
B/C	0.22 - 1.5 m	Brownish yellow (10YR6/6-Moist); ; Light clay; Massive grade of structure; Smooth-ped fabric; Dry; Weak consistence; Many (20 - 50 %), Calcareous, Fine (0 - 2 mm), Veins; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.9);

#### 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			

0.02 - 0.22	7.9A
0.22 - 1.5	8.4A

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			%		

0.02 - 0.22  
0.22 - 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 - m <sup>3</sup> /m <sup>3</sup>				mm/h	mm/h

0.02 - 0.22  
0.22 - 1.5

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**Laboratory Analyses Completed for this profile**

4A1                      pH of 1:5 soil/water suspension