

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 296 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

**Site Information**

<b>Desc. By:</b>	M. DeCorte	<b>Locality:</b>	
<b>Date Desc.:</b>	03/07/91	<b>Elevation:</b>	320 metres
<b>Map Ref.:</b>	Sheet No. : 8257 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7745990 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	463802 Datum: AGD66	<b>Drainage:</b>	Imperfectly 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>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<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>	120 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mesotrophic Mesonatric Brown Sodosol Medium Non-gravelly Sandy Clayey Moderately deep	<b>Principal Profile Form:</b>	Dy3.32
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Solodic soil

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Eriachne species, Chrysopogon fallax  
Mid Strata - Tree, 1.01-3m, Sparse. \*Species includes - Eucalyptus brownii, Eremophila mitchellii  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Eucalyptus brownii

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

**Profile Morphology**

A1	0 - 0.05 m	Dark yellowish brown (10YR4/4-Moist); ; Sand; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A2j	0.05 - 0.25 m	Yellowish brown (10YR5/6-Moist); ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.25 - 0.6 m	Yellowish brown (10YR5/8-Moist); Mottles, 5YR56, 2-10% , 5-15mm, Prominent; Mottles, 2-10% ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.6); Few, very fine (0-1mm) roots;

**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		%
0 - 0.05	6.1A								
0.25 - 0.6	7.6A		0.5J	6.5	0.4	1.8		11.3I	15.93

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  
0.25 - 0.6

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 - 0.05  
0.25 - 0.6

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**Laboratory Analyses Completed for this profile**

15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension