

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2163 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	Barry, Earl	<b>Locality:</b>	
<b>Date Desc.:</b>	04/08/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8155 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7625142 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	443799 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>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mottled Hypercalcic Brown Dermosol	<b>Principal Profile Form:</b>	Uf6.21
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	No suitable

No analytical data are available but confidence is fair.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Very sparse. \*Species includes - None recorded  
 Mid Strata - Tree, 1.01-3m, Sparse. \*Species includes - Eremophila mitchellii, Lysiphillum carronii  
 Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Acacia cambagei

**Surface Coarse Fragments:** 20-50%, medium gravelly, 6-20mm, subrounded, Quartz

#### Profile Morphology

A11	0 - 0.05 m	Dark brown (7.5YR3/4-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; ; Calcareous, ; ; Gypseous, ; ; Field pH 6 (Raupach, 0.02); Abrupt change to -
B21	0.05 - 0.42 m	Strong brown (7.5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Mudstone, coarse fragments; Few (2 - 10 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations; ; Gypseous, ; ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.3); Clear change to -
B22	0.42 - 0.8 m	Strong brown (7.5YR5/6-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, Mudstone, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; ; Gypseous, ; ; Soil matrix is Slightly calcareous; Field pH 9 (Raupach, 0.6);
B23	0.8 - 1 m	Red (2.5YR4/8-Moist); Mottles, 7.5YR5/6, 10-20% , 5-15mm, Distinct; Mottles, 5Y6/4, 10-20% ; Medium heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Mudstone, coarse fragments; ; Calcareous, ; ; Gypseous, ; ; Field pH 8 (Raupach, 0.9); Gradual change to
B24	1 - 1.2 m	Pale yellow (5Y7/4-Moist); Mottles, 5YR5/6, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Medium heavy clay; Smooth-ped fabric; Dry; ; Calcareous, ; ; Gypseous, ; ; Field pH 6 (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						

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

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