

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 2154                      **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>	03/08/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8254    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7615014 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	457986    Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>ExposureType:</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):** Firm

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Eutrophic Supracalcic Black Dermosol		<b>Principal Profile Form:</b>	Uf6.32
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	No suitable group

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, 0.51-1m, Sparse. \*Species includes - None recorded  
Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Acacia harpophylla, Eremophila mitchellii, Lysiphillum  
carronii

Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Acacia harpophylla, Eucalyptus brownii

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

#### Profile Morphology

A11	0 - 0.03 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.01); Abrupt change to -
B21	0.03 - 0.34 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.2); Clear change to -
B22	0.34 - 0.7 m	Dark brown (10YR3/3-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9 (Raupach, 0.6); Gradual change to -
B23	0.7 - 1.1 m	Dark greyish brown (10YR4/2-Moist); ; Light medium clay; Smooth-ped fabric; Dry; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , , ; Soil matrix is Very highly calcareous; Field pH 9 (Raupach, 1);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable Acidity		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na				%
						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
		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

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Laboratory Analyses Completed for this profile