

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2015 **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>	09/06/93	<b>Elevation:</b>	250 metres
<b>Map Ref.:</b>	Sheet No. : 8245 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7613856 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	464657 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>	Level plain <9m <1%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Cracking, Self-mulching

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Episodic-Epicalcareous Self-Mulching Black Vertosol	<b>Principal Profile Form:</b>	Ug5.1
Slightly gravelly Medium fine Very fine Deep	<b>Great Soil Group:</b>	Black earth

**ASC Confidence:**  
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, Sparse. \*Species includes - Cenchrus ciliaris  
Mid Strata - Tree, 1.01-3m, Isolated plants. \*Species includes - Eremophila mitchellii, Lysiphillum carronii  
Tall Strata - Tree, 3.01-6m, Sparse. \*Species includes - Acacia harpophylla, Terminalia oblongata

**Surface Coarse Fragments:** 2-10%, coarse gravelly, 20-60mm, angular, Igneous rock (unidentified)

#### Profile Morphology

A11	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Moderate grade of structure, <2 mm, Granular; Smooth-ped fabric; Dry; Very weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.05); Abrupt change to -
A12	0.05 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; , Calcareous, , , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.15); Clear change to -
B21	0.2 - 0.6 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.5); Gradual change to -
B22	0.6 - 1 m	Dark brown (10YR3/3-Moist); ; Medium clay; Moderate grade of structure; Smooth-ped fabric; Dry; , Calcareous, , , Gypseous, , ; Field pH 7.5 (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 Cmol (+)/kg	Acidity			%

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	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