

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2294 **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>	04/11/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7959 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7889100 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	333857 Datum: AGD66	<b>Drainage:</b>	No Data

#### 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>	Hills
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	4 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	Endocalcareous Self-Mulching Black Vertosol Non-gravelly Medium fine Very fine Very deep	<b>Mapping Unit:</b>	N/A
		<b>Principal Profile Form:</b>	Ug5.13
<b>ASC Confidence:</b>	Analytical data are incomplete but reasonable confidence.	<b>Great Soil Group:</b>	Black earth

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Ophiurus exaltatus, Dichanthium species, Bothriochloa species Mid Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Eucalyptus erythrophloia, Eucalyptus papuana, Acacia salicina Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - Eucalyptus papuana

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, rounded, Basalt

#### Profile Morphology

A11	0 - 0.04 m	Very dark grey (10YR3/1-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Granular; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.02);
A12	0.04 - 0.5 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , , Field pH 8 (Raupach, 0.4);
B21	0.5 - 0.95 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , , Field pH 9 (Raupach, 0.4);
B22	0.95 - 1.5 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 1.4);
BC	1.5 - 1.8 m	Brownish yellow (10YR6/6-Moist); ; Medium clay; Smooth-ped fabric; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , Soil matrix is Highly calcareous; Field pH 9 (Raupach, 1.7);

#### Morphological Notes

#### Observation 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