

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 745 **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> 19/09/91	<b>Elevation:</b> 310 metres
<b>Map Ref.:</b> Sheet No. : 8157 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7786431 AMG zone: 55	<b>Runoff:</b> Moderately rapid
<b>Easting/Lat.:</b> 421406 Datum: AGD66	<b>Drainage:</b> No Data

#### 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> Undisturbed soil core, Schist

#### Land Form

<b>Rel/Slope Class:</b> Gently undulating plains <9m 1-3%	<b>Pattern Type:</b> Plain
<b>Morph. Type:</b> Open depression (vale)	<b>Relief:</b> No Data
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> Very gently sloped
<b>Slope:</b> 3 %	<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 Hypercalcaric Brown Dermosol Thin Non-gravelly Clayey Clayey Moderately deep	<b>Principal Profile Form:</b> Ug5.13

<b>ASC Confidence:</b>	<b>Great Soil Group:</b> N/A
No analytical data are available but confidence is fair.	

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Closed or dense. \*Species includes - Bothriochloa pertusa, Bothriochloa decipiens,

Cenchrus ciliaris Mid Strata - Tree, 3.01-6m, Isolated clumps. \*Species includes - Eucalyptus erythrophloia

Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - Eucalyptus erythrophloia, Eucalyptus crebra

**Surface Coarse Fragments:** 0-2%, cobbly, 60-200mm, subangular tabular, Schist

#### Profile Morphology

A1	0 - 0.05 m	Dark brown (7.5YR3/2-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Sandy (grains prominent) fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.05); Clear change to -
A3	0.05 - 0.15 m	Dark brown (7.5YR3/2-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Sandy (grains prominent) fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , Clear change to -
B2	0.15 - 0.32 m	Brown (7.5YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Prismatic; Sandy (grains prominent) fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 8 (Raupach, 0.3); Gradual change to -
B3	0.32 - 0.6 m	Dark yellowish brown (10YR4/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Sandy (grains prominent) fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 9.5 (Raupach, 0.6); Gradual change to -
BC	0.6 - 0.85 m	Yellowish brown (10YR5/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Sandy (grains prominent) fabric; Dry; Firm consistence; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , Soil matrix is Highly calcareous; Clear change to -
Ck	0.85 - 0.95 m	; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Sandy (grains prominent) fabric; Dry; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, dispersed, Schist, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.9);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

[illegible]

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**Laboratory Analyses Completed for this profile**

4A1                      pH of 1:5 soil/water suspension