

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 532 **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> 18/06/91	<b>Elevation:</b> No Data
<b>Map Ref.:</b> Sheet No. : 8157 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7746339 AMG zone: 55	<b>Runoff:</b> Moderately rapid
<b>Easting/Lat.:</b> 427358 Datum: AGD66	<b>Drainage:</b> Moderately well 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> Undisturbed soil core, Granodiorite

#### Land Form

<b>Rel/Slope Class:</b> Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b> Rises
<b>Morph. Type:</b> Mid-slope	<b>Relief:</b> No Data
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> Very gently sloped
<b>Slope:</b> 2 %	<b>Aspect:</b> 160 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Haplic Hypercalcic Red Chromosol Medium Non-gravelly	<b>Principal Profile Form:</b> Dr2.13
Loamy Clayey Moderately deep	
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Red-brown earth
All necessary analytical data are available.	

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Bothriochloa ewartiana, Heteropogon contortus, Chrysopogon fallax Mid Strata - Shrub, 1.01-3m, Isolated plants. \*Species includes - Erythroxylon australe

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

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.03 m	Dark reddish brown (5YR3/2-Moist); ; Sandy loam (Light); Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Clear change to -
A12	0.03 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam (Light); Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.05); Clear change to -
B21	0.1 - 0.22 m	Red (10R4/8-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , ; Clear change to -
B22	0.22 - 0.72 m	Red (10R4/8-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.6); Clear change to -
BC	0.72 - 0.85 m	; Moderately moist; Weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Gradual change to -
C	0.85 - 0.95 m	; Weak consistence; Many (20 - 50 %), 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][illegible][illegible]

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**Laboratory Analyses Completed for this profile**

15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension