

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1658 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b> Bright, J (Mitch)	<b>Locality:</b>
<b>Date Desc.:</b> 28/04/93	<b>Elevation:</b> No Data
<b>Map Ref.:</b> Sheet No. : 7958 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7838703 AMG zone: 55	<b>Runoff:</b> Moderately rapid
<b>Easting/Lat.:</b> 318079 Datum: AGD66	<b>Drainage:</b> 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, No Data

#### Land Form

<b>Rel/Slope Class:</b> Undulating rises 9-30m 3-10%	<b>Pattern Type:</b> Rises
<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> 9 %	<b>Aspect:</b> No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Haplic Eutrophic Red Chromosol Thin Very gravelly Clay-loamy Clayey Moderately deep	<b>Principal Profile Form:</b> Dr2.13
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Red podzolic soil
Confidence level not specified	

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Bothriochloa species, Cymbopogon bombycinus

Mid Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Acacia species

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

**Surface Coarse Fragments:** 50-90%, coarse gravelly, 20-60mm, subrounded, Quartz

#### Profile Morphology

A1	0 - 0.07 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 50-90%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), , , ; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear change to -
B1	0.07 - 0.25 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Common (10 - 20 %), , , ; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.2); Gradual change to -
B21	0.25 - 0.4 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Few cutans, <10% of ped faces or walls coated, faint; Common (10 - 20 %), , , ; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.3); Gradual change to -
B22	0.4 - 0.7 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Few cutans, <10% of ped faces or walls coated, faint; Common (10 - 20 %), , , ; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 0.5); Field pH 9.5 (Raupach, 0.7); Gradual change to -
C	0.7 - 0.8 m	; , Calcareous, , , , Gypseous, , ;

#### 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	Acidity					%
						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	
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