

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1891 **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>	10/09/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7959 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7898680 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	279273 Datum: AGD66	<b>Drainage:</b>	Well 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>	Undisturbed soil core, Schist

#### Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<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>	Gently inclined
<b>Slope:</b>	4 %	<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 Dermosol Thin Gravelly Clay-loamy Clayey Moderately deep		<b>Principal Profile Form:</b>	Gn3.13

<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
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 - Heteropogon contortus  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus papuana

**Surface Coarse Fragments:** 10-20%, coarse gravelly, 20-60mm, subrounded, Quartz

#### Profile Morphology

A11	0 - 0.05 m	Reddish brown (5YR4/4-Moist); ; Clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.02); Clear change to -
B1	0.05 - 0.27 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, subangular platy, Schist, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.2); Gradual change to -
B21	0.27 - 0.67 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist; Very firm consistence; 0-2%, coarse gravelly, 20-60mm, subangular platy, Schist, coarse fragments; , Calcareous, , , , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 8 (Raupach, 0.5); Gradual change to -
BC	0.67 - 0.9 m	Yellowish red (5YR4/6-Moist); ; Sandy light clay; Moderately moist; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, subangular platy, Schist, coarse fragments; , Calcareous, , , , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 9 (Raupach, 0.9);
C	0.9 - 1 m	Reddish brown (5YR5/3-Moist); ; , Calcareous, , , , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 9 (Raupach, 1);

#### 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