

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 131 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M. DeCorte	<b>Locality:</b>	
<b>Date Desc.:</b>	04/09/90	<b>Elevation:</b>	670 metres
<b>Map Ref.:</b>	Sheet No. : 7957 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7757291 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	291984 Datum: AGD66	<b>Drainage:</b>	Imperfectly 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>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Steep hills 90-300m 32-56%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Crest	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	0 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Dystrophic Mottled-Mesonatric Yellow Sodosol Very thick Non-gravelly Sandy Clayey Deep	<b>Principal Profile Form:</b>	Dy3.82
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	No suitable group

No analytical data and little or no knowledge of this soil.

**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, Aristida species, Bothriochloa ewartiana Mid Strata - Tree, 1.01-3m, Isolated clumps. \*Species includes - Petalostigma pubescens, Bursaria incana, Eucalyptus quadricostata  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus quadricostata, Eucalyptus papuana

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A1	0 - 0.18 m	Dark brown (10YR3/3-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Gradual, Smooth change to -
A21c	0.18 - 0.38 m	Brown (10YR5/3-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Few, fine (1-2mm) roots; Clear, Smooth change to -
A22c	0.38 - 0.63 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B1	0.63 - 0.82 m	Light yellowish brown (10YR6/4-Moist); ; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; FewClear, Smooth change to -
B21	0.82 - 0.95 m	Yellow (10YR7/6-Moist); Mottles, 2.5YR56, 20-50% , 0-5mm, Distinct; Mottles, 7.5YR56, 20-50% ; Medium clay; Massive grade of structure; Smooth-ped fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 5.5 (Raupach, 0.9); Abrupt, Smooth change to -
B3	0.95 - 1 m	Light grey (2.5Y7/2-Moist); ; Coarse sandy medium clay; Massive grade of structure; Smooth-ped fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , 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 Cmol (+)/kg	Acidity		%
0 - 0.18	6.6A								
0.18 - 0.38	6.9A		1.3B	0.29	0.12	0.03			
0.38 - 0.63	6.7A								
0.82 - 0.95			0.89B	0.57	0.08	0.11		1.5l	7.33
			0.5J	0.5	0.1	0.2			13.33
0.95 - 1	6.3A								

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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