

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 529                      **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. : 8357    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7737517 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	503566    Datum: AGD66	<b>Drainage:</b>	Rapidly 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, Granite

#### 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>	210 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Basic Paralithic Orthic Tenosol Medium Non-gravelly Sandy Sandy Shallow		<b>Principal Profile Form:</b>	Uc4.13
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Siliceous sand

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Bothriochloa pertusa, Heteropogon contortus

Mid Strata - , , . \*Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.05 m	Very dark grey (10YR3/1-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 20-50%, fine gravelly, 2-6mm, subangular, undisturbed, Granite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05); Sharp, Smooth change to -
A12	0.05 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, undisturbed, Granite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Sharp, Smooth change to -
A2	0.12 - 0.35 m	Dark yellowish brown (10YR4/4-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, undisturbed, Granite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Sharp, Smooth change to -
C	0.35 - 0.5 m	; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 20-50%, Granite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 8 (Raupach, 0.5);

#### Morphological Notes

#### Observation 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 - 0.05	6.9A		6.4J	1.2	0.5	0.5		6.9I	7.25

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.05  
0.35 - 0.5

[illegible]

0 - 0.05  
0.35 - 0.5

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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