

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 91 **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>	07/08/90	<b>Elevation:</b>	380 metres
<b>Map Ref.:</b>	Sheet No. : 8157 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7752922 AMG zone: 55	<b>Runoff:</b>	Very rapid
<b>Easting/Lat.:</b>	408360 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, Granulite

**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>	5 %	<b>Aspect:</b>	180 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Basic Paralitric Orthic Tenosol Gravelly Sandy Moderately deep	<b>Principal Profile Form:</b>	Uc5.11
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Lithosol

All necessary analytical data are available.

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Phynchelytrum repens, Heteropogon contortus,  
Chrysopogon fallax Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eucalyptus crebra, Bursaria incana, Eucalyptus papuana

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

**Surface Coarse Fragments:** 10-20%, fine gravelly, 2-6mm, angular, Granulite

**Profile Morphology**

A11	0 - 0.12 m	Dark yellowish brown (10YR4/4-Moist); ; Loamy coarse sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersed, Granulite, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 6.2 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.12 - 0.3 m	Yellowish brown (10YR5/4-Moist); ; Clayey coarse sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersed, Granulite, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B/C	0.3 - 0.6 m	Strong brown (7.5YR5/8-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; 90-100%, medium gravelly, 6-20mm, angular, dispersed, Granulite, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
C	0.6 - 0.85 m	; , Calcareous, , , Gypseous, , ; Field pH 8.5 (Raupach, 0.85);

**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 - 0.12	6.3A		2.1B	0.73	0.24	0.1			
0.12 - 0.3	6.5A								
0.3 - 0.6	7A		3.9B	2.5	0.06	0.15		5.4l	2.78
			3.2J	2	0.1	0.3			5.56
0.6 - 0.85	7.8A		8.8B	0.1	0.1	0.53			

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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