

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 530 **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. : 8257 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7746702 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	499186 Datum: AGD66	<b>Drainage:</b>	Moderately 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, Dolerite

**Land Form**

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Ridge	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	140 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Hypercalcic Brown Dermosol Thin Non-gravelly Clay-loamy Clayey Shallow	<b>Principal Profile Form:</b>	Db1.13
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	No suitable

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Bothriochloa pertusa, Bothriochloa ewartiana,  
Heteropogon contortus Mid Strata - Tree, 1.01-3m, Isolated plants. \*Species includes - Eucalyptus erythrophloia, Albizia basaltica, Erythroxylon australe  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus erythrophloia, Eucalyptus crebra

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam (Heavy); Weak grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; , Calcareous, , , , Gypseous, , , Field pH 8 (Raupach, 0.05); Clear change to -
B2	0.05 - 0.3 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; , Calcareous, , , , Gypseous, , , Field pH 9 (Raupach, 0.3); Clear change to -
C	0.3 - 0.8 m	; Earthy fabric; , Calcareous, , , , Gypseous, , , Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.8);

**Morphological Notes**

**Observation Notes**

**Site Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0 - 0.05	7.3A								
0.05 - 0.3	8A		25.1J	1.9	0.3	0.3	24.8I		1.2I
0.3 - 0.8	8.6A								

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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