

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 522                      **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>	12/04/91	<b>Elevation:</b>	200 metres
<b>Map Ref.:</b>	Sheet No. : 8257    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7760100 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	487290    Datum: AGD66	<b>Drainage:</b>	Moderately well 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>	Undisturbed soil core, Granodiorite

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Rises
<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>	250 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Supracalcic Brown Kandosol Thin Moderately gravelly Clay-loamy Clay-loamy Shallow	<b>Principal Profile Form:</b>	Um5.51
<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, Heteropogon contortus

Mid Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Eucalyptus erythrophloia

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

**Surface Coarse Fragments:** 20-50%, cobbly, 60-200mm, subangular, Granite

**Profile Morphology**

A	0 - 0.05 m	Dark brown (7.5YR3/2-Moist); ; Sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moderately moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05);
AB	0.05 - 0.18 m	Brown (7.5YR4/4-Moist); ; Clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Sandy (grains prominent) fabric; Moderately moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.15);
BC	0.18 - 0.33 m	Brown (7.5YR5/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, dispersed, Granodiorite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Soil matrix is Highly calcareous;
C	0.33 - 0.8 m	; Massive grade of structure; Earthy fabric; Moderately moist; Loose consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Granodiorite, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; 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	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.05	7.2A								
0.05 - 0.18	7.5A		17.1J	3.3	0.3	0.3		20.4I	1.47
0.33 - 0.8	8.9A								

[illegible]

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.05										
0.05 - 0.18										
0.33 - 0.8										

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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