

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 840                      **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>	23/10/91	<b>Elevation:</b>	250 metres
<b>Map Ref.:</b>	Sheet No. : 8156    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7682186 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	404616    Datum: AGD66	<b>Drainage:</b>	No Data

**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, No Data

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	2 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Cracking, Self-mulching

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Epicalcareous Self-Mulching Black Vertosol Non-gravelly	<b>Principal Profile Form:</b>	Ug5.14
Medium fine Very fine Very deep	<b>Great Soil Group:</b>	Black earth

**ASC Confidence:**  
All necessary analytical data are available.

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

**Vegetation:**

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

**Profile Morphology**

A11	0 - 0.03 m	Dark greyish brown (2.5Y4/2-Moist); ; Light medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Dry; Very weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Clear change to -
A12	0.03 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Field pH 9.5 (Raupach, 0.05);
B21	0.3 - 1 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Field pH 9.5 (Raupach, 0.6); Diffuse change to -
B22	1 - 1.8 m	Light yellowish brown (10YR6/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 9.5 (Raupach, 1.5);

**Morphological Notes**

**Observation Notes**

**Site Notes**

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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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