

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 826 **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>	22/10/91	<b>Elevation:</b>	240 metres
<b>Map Ref.:</b>	Sheet No. : 8156 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7680730 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	397928 Datum: AGD66	<b>Drainage:</b>	No Data

#### **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, No Data

#### **Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	No Data

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

#### **Erosion:**

#### **Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Sodic Eutrophic Black Dermosol Medium Non-gravelly Clayey Clayey Moderately deep	<b>Principal Profile Form:</b>	Uf3
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	No suitable

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, Sparse. \*Species includes - Dichanthium species  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - , , . \*Species includes - None Recorded

#### **Surface Coarse Fragments:**

#### **Profile Morphology**

A1	0 - 0.12 m	Dark brown (10YR3/3-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Dry; Weak consistence; ; Calcareous, , ; , Gypseous, , ; Field pH 5.8 (Raupach, 0.05); Clear change to -
A2j	0.12 - 0.22 m	Dark greyish brown (10YR4/2-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Clear change to -
B21	0.22 - 0.6 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 0.6); Diffuse change to -
B22	0.6 - 0.9 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 0.9);

#### **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	7A								
0.6 - 0.9	8.1A		11.4J	9.6	0.2	3.3		24.7I	13.36

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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