

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 712 **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>	12/08/91	<b>Elevation:</b>	310 metres
<b>Map Ref.:</b>	Sheet No. : 8158 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7812512 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	411307 Datum: AGD66	<b>Drainage:</b>	Poorly 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>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	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>	310 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Endocalcareous Crusty Grey Vertosol Non-gravelly Medium fine Very fine Very deep	<b>Principal Profile Form:</b>	Ug5.5
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Grey clay

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Bothriochloa ewartiana, Sporobolus species  
Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eremophila mitchellii, Atalaya hemiglauc, Terminalia oblongata  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus brownii

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

#### Profile Morphology

A11	0 - 0.02 m	Dark grey (10YR4/1-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Platy; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Clear change to -
A12	0.02 - 0.1 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 0.05); Clear change to -
B21	0.1 - 0.3 m	Grey (10YR5/1-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; , Calcareous, , , , Gypseous, , ; Diffuse change to -
B22k	0.3 - 0.95 m	Greyish brown (10YR5/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.6); Abrupt change to
B23c	0.95 - 1.05 m	Light brownish grey (2.5Y6/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Laminae; , Calcareous, , , , Gypseous, , ; Abrupt change to -
B24	1.05 - 1.5 m	Light brownish grey (2.5Y6/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 5.5 (Raupach, 1.5); Diffuse change to -

#### Morphological Notes

#### Observation 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		%
0.02 - 0.1	7.2A								
0.1 - 0.3	9.3A		23.4J	8.2	0.1	1		28.1I	3.56
0.3 - 0.95	8.5A		13.9J	9.5	0.3	2.9		25.9I	11.20
1.05 - 1.5	5.1A								

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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