

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1117 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	Rogers, Gary	<b>Locality:</b>	
<b>Date Desc.:</b>	20/05/92	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8058 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7823152 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	348037 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>	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>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Hypercalcic Black Dermosol Medium Non-gravelly		<b>Principal Profile Form:</b>	Gn3.43
Clay-loamy Clayey Very deep		<b>Great Soil Group:</b>	No suitable group

#### **ASC Confidence:**

All necessary analytical data are available.

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

#### Vegetation:

Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Dichanthium species  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - Eucalyptus erythrophloia

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

#### Profile Morphology

A11	0 - 0.18 m	Very dark grey (10YR3/1-Moist); ; Clay loam (Heavy); Strong grade of structure, 10-20 mm, Granular; Smooth-ped fabric; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 8.5 (Raupach, 0.05); Clear change to -
B21	0.18 - 0.9 m	Very dark greyish brown (10YR3/2-Moist); ; Light clay; Strong grade of structure, Lenticular; Smooth-ped fabric; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.8); Gradual change to -
B22	0.9 - 1.4 m	Dark brown (7.5YR3/2-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 1.2); Gradual change to -
B23	1.4 - 2.1 m	Reddish brown (5YR4/4-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Few (2 - 10 %), Manganiferous, , Soft segregations; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 2);

#### 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	Acidity		%
						Cmol (+)/kg			

0 - 0.18	7.5A	42B	23	1.4	0.76
1.4 - 2.1	7.7A				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.18  
1.4 - 2.1

[illegible]

0 - 0.18  
1.4 - 2.1

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension