

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 1095                      **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>	07/05/92	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>	Sheet No. : 8058    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7822680 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	374156    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>	Alluvial plain
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Brown Ferrosol Thick Non-gravelly Clayey Clayey Very deep		<b>Principal Profile Form:</b>	Uf6.31
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Euchrozem

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 - Dichanthium sericeum, Urochloa  
mosambicensis

Mid Strata - , , , . \*Species includes - None recorded

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

**Surface Coarse Fragments:** 0-2%, stony, 200-600mm, rounded, Basalt

**Profile Morphology**

A11	0 - 0.12 m	Dark reddish brown (5YR3/3-Moist); ; Fine sandy light clay; Weak grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.1); Clear change to -
A12	0.12 - 0.5 m	Dark reddish brown (5YR3/4-Moist); ; Light medium clay; Massive grade of structure; Earthy fabric; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.5); Clear change to -
B21	0.5 - 1.1 m	Dark brown (10YR3/3-Moist); ; Medium heavy clay; Strong grade of structure, Lenticular; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 1); Clear change to -
B22	1.1 - 1.6 m	Brown (10YR4/3-Moist); ; Medium clay; Moderate grade of structure; Smooth-ped fabric; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , , ; Field pH 8 (Raupach, 1.5); Clear change to -
C	1.6 - 1.8 m	Yellowish brown (10YR5/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; , Calcareous, , , , Gypseous, , , ; Field pH 8 (Raupach, 1.8);

**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 - 0.12	6.4A		9.4B	6.4	1.1	0.16			
0.12 - 0.5	7.2A		11B	9.7	0.19	1.2			
0.5 - 1.1	8.2A								
1.1 - 1.6	7.8A								
1.6 - 1.8	8.1A								

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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