

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 814                      **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>	17/10/91	<b>Elevation:</b>	260 metres
<b>Map Ref.:</b>	Sheet No. : 8156    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7689044 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	422862    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>	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
Eutrophic Mottled-Subnatic Grey Sodosol Thick Non-gravelly Clay-loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Dy3.32
<b>ASC Confidence:</b> All necessary analytical data are available.	<b>Great Soil Group:</b>	Solodic soil

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

**Vegetation:** Low Strata - , , . \*Species includes - Aristida species, Chrysopogon fallax  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus brownii

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, rounded, Ferricrete

#### Profile Morphology

A11	0 - 0.08 m	Black (10YR2/1-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Dry; , Calcareous, , , ; Gypseous, , ; Field pH 5.8 (Raupach, 0.05); Clear change to -
A12	0.08 - 0.38 m	Dark greyish brown (10YR4/2-Moist); , 10YR51; Clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; , Calcareous, , , ; Gypseous, , ; Field pH 5.8 (Raupach, 0.2); Clear change to -
A2j	0.38 - 0.4 m	; Clay loam; Earthy fabric; Dry; , Calcareous, , , ; Gypseous, , ; Abrupt change to -
B2	0.4 - 0.45 m	Dark grey (10YR4/1-Moist); , 10YR43; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; , Calcareous, , , ; Gypseous, , ; Field pH 5.8 (Raupach, 0.45);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol	(+)/kg			%
0 - 0.08	5.3A		4.9B	4.8	0.16	0.23				
0.08 - 0.38	5.4A									
0.38 - 0.4	5.5A		4.9B	6.1	0.06	0.68				

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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