

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 152 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M. DeCorte	<b>Locality:</b>	
<b>Date Desc.:</b>	17/09/90	<b>Elevation:</b>	325 metres
<b>Map Ref.:</b>	Sheet No. : 8156 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7724630 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	443543 Datum: AGD66	<b>Drainage:</b>	Well drained

#### 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>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	3 %	<b>Aspect:</b>	120 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Mesotrophic Red Dermosol Medium Non-gravelly Clay-loamy Clayey Deep	<b>Principal Profile Form:</b>	Gn3.15
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	No suitable group

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, Mid-dense. \*Species includes - Bothriochloa ewartiana, Aristida species  
Mid Strata - Tree, 1.01-3m, Mid-dense. \*Species includes - Eucalyptus crebra, Albizia basaltica, Acacia species  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus

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

#### Profile Morphology

A1	0 - 0.15 m	Reddish brown (5YR4/4-Moist); ; Sandy clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B1	0.15 - 0.48 m	Red (2.5YR4/6-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Common, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.48 - 1.3 m	Red (10R4/6-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , , , Gypseous, , ; Field pH 6.8 (Raupach, 0.9);

#### 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 - 0.15	6.4A		4.7B	1.7	0.57	0.04				
0.15 - 0.48	6.2A									
0.48 - 1.3	6.6A		4.1B	3.1	0.11	0.26		6.7I		3.88
			3.1J	2.1	0.1	0.1				1.49

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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
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