

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 297 **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>	03/07/91	<b>Elevation:</b>	290 metres
<b>Map Ref.:</b>	Sheet No. : 8257 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7743104 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	465226 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>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	80 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Sodic Eutrophic Red Sodosol Medium Non-gravelly Sandy Clayey Moderately deep	<b>Principal Profile Form:</b>	Dr2.22

<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Non-calcic brown soil
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 decipiens, Chrysopogon fallax,  
Eragrostis species Mid Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Eucalyptus crebra  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - None Recorded

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

#### Profile Morphology

A1	0 - 0.05 m	Dark reddish brown (5YR3/4-Moist); ; Loamy fine sand; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
A3	0.05 - 0.25 m	Yellowish red (5YR4/6-Moist); ; Clay loam, fine sandy; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , Gypseous, , ; Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B1	0.25 - 0.48 m	Yellowish red (5YR5/6-Moist); ; Fine sandy light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.3); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.48 - 0.7 m	Yellowish red (5YR5/6-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.6); Common, very fine (0-1mm) roots;

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.05	5.8A									
0.25 - 0.48	5.9A									
0.48 - 0.7	6.4A		2.3J	2.1	0.4	0.3		7.6I		3.95

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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