

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 398 **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>	02/09/91	<b>Elevation:</b>	330 metres
<b>Map Ref.:</b>	Sheet No. : 8157 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7770106 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	397766 Datum: AGD66	<b>Drainage:</b>	Imperfectly 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>	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 Subnatric Grey Sodosol Thin Non-gravelly Silty Clayey Moderately deep	<b>Principal Profile Form:</b>	Dy3.43
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Solodized solonetz
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 - Bothriochloa decipiens, Aristida species, Themeda triandra Mid Strata - , , . \*Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Eucalyptus brownii

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

#### Profile Morphology

A1	0 - 0.03 m	Black (10YR2/1-Moist); ; Silty loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; ; Calcareous, ; ; Gypseous, ; ; Clear change to -
A2j	0.03 - 0.18 m	Dark greyish brown (10YR4/2-Moist); ; Silty clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; ; Calcareous, ; ; Gypseous, ; ; Field pH 6 (Raupach, 0.05); Abrupt change to -
A2e	0.18 - 0.2 m	Greyish brown (10YR5/2-Moist); ; Silty clay loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; ; Calcareous, ; ; Gypseous, ; ; Abrupt change to -
B21	0.2 - 0.4 m	Dark grey (10YR4/1-Moist); Mottles, 10YR62, 10-20% , 15-30mm, Faint; Mottles, 10-20% ; Medium heavy clay; Strong grade of structure, 50-100 mm, Columnar; Smooth-ped fabric; Moderately moist; Very strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; ; Calcareous, ; ; Gypseous, ; ; Field pH 6 (Raupach, 0.3); Clear change to -
B22	0.4 - 0.6 m	Grey (10YR5/1-Moist); Mottles, 10YR63, 20-50% , 5-15mm, Distinct; Mottles, 20-50% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; ; Calcareous, ; ; Gypseous, ; ; Field pH 8.5 (Raupach, 0.6);

#### Morphological Notes

#### Observation Notes

#### Site Notes

**Laboratory Test Results:**

[illegible]

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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