

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 309                      **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>	15/07/91	<b>Elevation:</b>	260 metres
<b>Map Ref.:</b>	Sheet No. : 8157    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7784411 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	439310    Datum: AGD66	<b>Drainage:</b>	Poorly drained

#### 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>	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
Hypocalcic Mottled-Subnatric Yellow Sodosol Thick Non-gravelly Sandy 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, Mid-dense. \*Species includes - Eragrostis species, Enneapogon species, Cymbopogon refractus    Mid Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Petalostigma pubescens, Melaleuca species, Grevillea

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus polycarpa, Eucalyptus papuana, Eucalyptus platyphylla

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

#### Profile Morphology

A1	0 - 0.08 m	Yellowish brown (10YR5/4-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Clear, Smooth change to -
A2e	0.08 - 0.3 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; 20-50%, coarse gravelly, 20-60mm, rounded, dispersed, Quartzite, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.3); Sharp, Smooth change to -
B21	0.3 - 0.55 m	Brownish yellow (10YR6/8-Moist); Mottles, 7.5YR58, 20-50% , 15-30mm, Distinct; Mottles, 2.5Y62, 20-50% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Columnar; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Clear, Smooth change to -
B22	0.55 - 0.9 m	Brownish yellow (10YR6/8-Moist); Mottles, 7.5YR58, 2-10% , 15-30mm, Distinct; Mottles, 2-10% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , , Field pH 9.5 (Raupach, 0.6);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg			%
0 - 0.08	6.7A								
0.08 - 0.3	7.1A		0.5J	0.6	0	0.1			
0.55 - 0.9	8.6A								

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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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension