

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 126 **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>	03/09/90	<b>Elevation:</b>	425 metres
<b>Map Ref.:</b>	Sheet No. : 7957 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7780996 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	337762 Datum: AGD66	<b>Drainage:</b>	Imperfectly 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>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial 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>	180 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Bleached Eutrophic Brown Chromosol Thick Non-gravelly Loamy Clayey Very deep	<b>Principal Profile Form:</b>	Db1.42
<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, Sparse. \*Species includes - Heteropogon contortus, Chrysopogon fallax  
Mid Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus platyphylla, Eucalyptus polycarpa  
Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus platyphylla, Eucalyptus polycarpa,  
Eucalyptus tessellaris

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

#### Profile Morphology

A1	0 - 0.02 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Common, fine (1-2mm) roots; Abrupt, Smooth change to -
A2c	0.02 - 0.48 m	Yellowish brown (10YR5/4-Moist); ; Loamy fine sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.3); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.48 - 0.95 m	Brown (10YR5/3-Moist); Mottles, 10YR22, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Light medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , , Field pH 6.8 (Raupach, 0.6); Common, very fine (0-1mm) roots; Abrupt, Tongued change to -
	0.95 - 1.45 m	Brown (10YR4/3-Moist); Mottles, 10YR56, 20-50% , 5-15mm, Faint; Mottles, 20-50% ; Loamy coarse sand; Moderate grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Weak consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 1.2); Abrupt, Smooth change to -
3C/D	1.45 - 1.85 m	Yellowish brown (10YR5/4-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 1.5); Abrupt, Smooth change to -
4C/D	1.85 - 2 m	Brown (10YR4/3-Moist); ; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 2);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations				CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Exchangeable Acidity		%
							(+)/kg		
0.02 - 0.48	6.8A		4.3B	2.2	0.6	0.04			
0.48 - 0.95	6.8A		7.9B	5.4	0.45	0.36		15.8l	2.28
			7.8J	5.2	0.5	0.3			1.90
0.95 - 1.45	8.1A		3.9B	2.5	0.22	0.28			
1.45 - 1.85	8.5A								
1.85 - 2	8.4A								

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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