

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 263 **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>	19/06/91	<b>Elevation:</b>	220 metres
<b>Map Ref.:</b>	Sheet No. : 8157 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7777434 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	441133 Datum: AGD66	<b>Drainage:</b>	Rapidly 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>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Ridge	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Levee	<b>Slope Category:</b>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	180 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	Basic Regolithic Orthic Tenosol Thick Non-gravelly Sandy Sandy Very deep	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	All necessary analytical data are available.	<b>Principal Profile Form:</b>	Uc5.22
		<b>Great Soil Group:</b>	Earthy sand

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Very sparse. \*Species includes - Chrysopogon fallax, Heteropogon contortus

Mid Strata - , , . \*Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Very sparse. \*Species includes - Eucalyptus tessellaris

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

#### Profile Morphology

A11	0 - 0.1 m	Dark yellowish brown (10YR4/4-Moist); ; Sand; Massive grade of structure; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear, Smooth change to -
A12	0.1 - 0.22 m	Brown (10YR4/3-Moist); ; Sand; Massive grade of structure; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Clear, Smooth change to -
A13	0.22 - 0.45 m	Brown (7.5YR4/4-Moist); ; Sand; Massive grade of structure; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Diffuse, Smooth change to -
B1	0.45 - 1 m	Brown (7.5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Many (>5 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Diffuse, Smooth change to -
B21	1 - 1.9 m	Strong brown (7.5YR5/6-Moist); ; Loamy sand; Weak grade of structure, 10-20 mm, Subangular blocky; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 1.5);

#### 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 - 0.1	6.1A		2.7B	1.1	0.18	0.1				
0.22 - 0.45	6.3A									
0.45 - 1	6.6A		3.6B	1.3	0.23	0.04				
1 - 1.9	7A		4.9J	2	0.5	0.2		2.8I		7.14

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**Laboratory Analyses Completed for this profile**

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