

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 42                      **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>	18/07/90	<b>Elevation:</b>	325 metres
<b>Map Ref.:</b>	Sheet No. : 8057    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7763080 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	385815    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>	Level plain <9m <1%	<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):** Loose

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Sodic Mesotrophic Yellow Kandosol Medium Non-gravelly	<b>Principal Profile Form:</b>	Gn2.25
Sandy Clay-loamy Deep	<b>Great Soil Group:</b>	Yellow earth
<b>ASC Confidence:</b> All necessary analytical data are available.		

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Very sparse. \*Species includes - Aristida species, Phynchelytrum repens,  
Chrysopogon fallax                      Mid Strata - Tree, 3.01-6m, Mid-dense. \*Species includes - Acacia species,  
Melaleuca viridiflora

Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - Melaleuca viridiflora, Eucalyptus erythrophloia

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

#### Profile Morphology

A1	0 - 0.1 m	Dark brown (10YR3/3-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 5.7 (Raupach, 0.04); Common, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.1 - 0.3 m	Light yellowish brown (10YR6/4-Moist); ; Loamy coarse sand; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 5.7 (Raupach, 0.2); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B21	0.3 - 0.75 m	Brownish yellow (10YR6/6-Moist); Mottles, 7.5YR68, 0-2% , 0-5mm, Faint; Mottles, 0-2% ; Coarse sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.5); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
2A2eb	0.75 - 0.85 m	Light brown (7.5YR6/4-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Wet; Loose consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Abrupt, Irregular change to -
2B2b	0.85 - 1.1 m	Pinkish grey (7.5YR6/2-Moist); Mottles, 7.5YR58, 20-50% , 15-30mm, Prominent; Mottles, 20-50% ; Sandy clay loam; Moderate grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Wet; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.9);

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Exchangeable Cations Ca Mg K	Exchangeable Acidity Na Cmol (+)/kg	CEC	ECEC	ESP %
0 - 0.1	5.3A		0.55B	0.17	0.11	0.03	
0.1 - 0.3	5.5A						
0.3 - 0.75	5.5A		0.75B	0.42	0.09	0.03	2.3I
			1J	0.3	0.1	0.2	1.30
0.85 - 1.1	6.5A						8.70

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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