

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 18 **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>	25/06/90	<b>Elevation:</b>	205 metres
<b>Map Ref.:</b>	Sheet No. : 8257 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7746856 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	491881 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>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Open depression (vale)	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Drainage depression	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	130 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Basic Histic Bleached-Orthic Tenosol Medium Non-gravelly	<b>Principal Profile Form:</b>	Uc2.21
Sandy Sandy Very deep	<b>Great Soil Group:</b>	Siliceous sand

**ASC Confidence:**  
All necessary analytical data are available.

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

**Vegetation:** Low Strata - , , . \*Species includes - Eragrostis species, Chrysopogon fallax, Heteropogon contortus  
Mid Strata - , , . \*Species includes - Melaleuca viridiflora, Eucalyptus erythrophloia, Planchonia careya  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Eucalyptus erythrophloia, Melaleuca viridiflora

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

#### Profile Morphology

A1	0 - 0.12 m	Brown (10YR5/3-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear, Smooth change to -
A21e	0.12 - 0.42 m	Very pale brown (10YR7/4-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; 0-2%, coarse gravelly, 20-60mm, angular, dispersed, Granulite, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.3); Clear, Smooth change to -
A22e	0.42 - 0.98 m	Yellow (10YR7/5-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; 10-20%, coarse gravelly, 20-60mm, angular, dispersed, Granulite, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.9); Abrupt, Smooth change to -
B21c	0.98 - 1.1 m	Reddish yellow (7.5YR6/6-Moist); ; Coarse sand; Sandy (grains prominent) fabric; Moist; Loose consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Granulite, coarse fragments; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , ; Clear, Smooth change to -
B22	1.1 - 1.8 m	Reddish yellow (7.5YR6/6-Moist); ; Coarse sand; Sandy (grains prominent) fabric; Moist; Loose consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersed, Granulite, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 1.8);

#### 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 - 0.12	6.9A		2.6B	0.78	0.14	0.04				
0.12 - 0.42	7A									
0.42 - 0.98	7.1A		0.89B	0.64	0.1	0.06				
1.1 - 1.8	7.9A		0.7J	0.3	0.1	0.2		2.8I		7.14

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.12												
0.12 - 0.42												
0.42 - 0.98												
1.1 - 1.8												

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	mm/h	mm/h
0 - 0.12			g/g - m3/m3		
0.12 - 0.42					
0.42 - 0.98					
1.1 - 1.8					

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 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