

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 190 **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>	19/09/90	<b>Elevation:</b>	305 metres
<b>Map Ref.:</b>	Sheet No. : 8058 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7811798 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	383464 Datum: AGD66	<b>Drainage:</b>	Well 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>	Undisturbed soil core, Basalt

#### 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>	90 degrees

**Surface Soil Condition (dry):** Cracking, Surface crust

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Endocalcareous Epipedal Black Vertosol Non-gravelly	<b>Principal Profile Form:</b>	Ug5.13
Medium fine Very fine Moderately deep	<b>Great Soil Group:</b>	Black earth

#### **ASC Confidence:**

No analytical data are available but confidence is fair.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Bothriochloa ewartiana, Bothriochloa  
bladhi

Mid Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Eucalyptus brownii, Acacia farnesiana

Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus brownii, Eucalyptus papuana

**Surface Coarse Fragments:** 0-2%, fine gravelly, 2-6mm, rounded, Quartz

#### Profile Morphology

A1	0 - 0.05 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Granular; Smooth-ped fabric; Coarse, (10 - 20) mm crack; Dry; Very firm consistence; 10-20%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.05 - 0.8 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 10-20%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B22	0.8 - 0.95 m	Very dark greyish brown (2.5Y3/2-Moist); ; Heavy clay; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Nodules; , Gypseous, , , ; Field pH 8.5 (Raupach, 0.95);

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg	Acidity		%
0 - 0.05	6.3A								
0.05 - 0.8	7.9A								
0.8 - 0.95	8.3A								

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**Laboratory Analyses Completed for this profile**

4A1                      pH of 1:5 soil/water suspension