

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 1732                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	Barry, Earl	<b>Locality:</b>	
<b>Date Desc.:</b>	25/06/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7958    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7793702 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	307839    Datum: AGD66	<b>Drainage:</b>	Poorly 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>	Undisturbed soil core, No Data

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	6 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Cracking, Self-mulching

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Self-Mulching Black Vertosol Non-gravelly Medium fine Very fine Deep	<b>Principal Profile Form:</b>	Ug5.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Black earth
Confidence level not specified		

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - None recorded  
Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Melaleuca bracteata  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Melaleuca bracteata

**Surface Coarse Fragments:** 2-10%, stony, 200-600mm, subrounded, Basalt

#### Profile Morphology

A11	0 - 0.02 m	Black (2.5Y2/0-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 9 (Raupach, 0); Sharp change to -
A12	0.02 - 0.25 m	Black (2.5Y2/0-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Polyhedral; Smooth-ped fabric; Dry; Rigid consistence; 0-2%, medium gravelly, 6-20mm, subangular, Basalt, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 9 (Raupach, 0.2); Gradual change to -
B21	0.25 - 0.5 m	Very dark grey (2.5Y3/0-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Basalt, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , , ; Field pH 8.5 (Raupach, 0.4); Gradual change to -
B22	0.5 - 1.2 m	Very dark grey (2.5Y3/0-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Basalt, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , , , Gypseous, , , ; Field pH 8.5 (Raupach, 1);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable Acidity		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na				%
						Cmol (+)/kg				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt Clay
								%	

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

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Laboratory Analyses Completed for this profile