

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1856 **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> 07/07/93	<b>Elevation:</b> No Data
<b>Map Ref.:</b> Sheet No. : 8155 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7667930 AMG zone: 55	<b>Runoff:</b> Slow
<b>Easting/Lat.:</b> 406692 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 plains <9m 1-3%	<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> Very gently sloped
<b>Slope:</b> 2 %	<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
Epicalcareous Self-Mulching Black Vertosol	<b>Principal Profile Form:</b> Ug5.1
<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, 0.51-1m, Sparse. \*Species includes - Cenchrus ciliaris, Eulalia aurea  
 Mid Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Lysiphillum carronii, Terminalia oblongata, Acacia  
 Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Acacia harpophylla, Lysiphillum carronii

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

#### Profile Morphology

A11	0 - 0.08 m	Very dark greyish brown (2.5Y3/2-Moist); ; Light medium clay; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Dry; Very weak consistence; Few (2 - 10 %), Calcareous, Medium (2 - 6 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.05); Abrupt change to -
A12	0.08 - 0.42 m	Very dark grey (2.5Y3/0-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 0.4); Gradual change to -
B21	0.42 - 1.25 m	Black (7.5YR2/0-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, Medium (2 - 6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 1.2); Gradual change to -
B22	1.25 - 1.65 m	Very dark grey (10YR3/1-Moist); Mottles, 10YR46, 20-50% , 15-30mm, Distinct; Mottles, 20-50% ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Limestone, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 1.6); Gradual change to -
B23k	1.65 - 1.9 m	Pale yellow (2.5Y7/3-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 10-20%, coarse gravelly, 20-60mm, subrounded, Limestone, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 1.85); Gradual change to -
B24	1.9 - 2.1 m	Pale yellow (5Y7/3-Moist); ; Medium clay; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach, 2);

#### Morphological Notes

#### Observation Notes

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**Site Notes**

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Laboratory Test Results:

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

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			%		

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

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Laboratory Analyses Completed for this profile