

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 1086                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	Rogers, Gary	<b>Locality:</b>	
<b>Date Desc.:</b>	06/05/92	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>	Sheet No. : 8058    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7830486 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	374428    Datum: AGD66	<b>Drainage:</b>	No Data

#### 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>	Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<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):** Self-mulching

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Epicalcareous Self-Mulching Black Vertosol Non-gravelly	<b>Principal Profile Form:</b>	Ug5.16
Very fine Very fine Very deep	<b>Great Soil Group:</b>	Black earth

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

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Cenchrus ciliaris, Eulalia aurea, Cyperus species

Mid Strata - , , . \*Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Eucalyptus coolibah, Eucalyptus brownii

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

#### Profile Morphology

A11	0 - 0.05 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Granular; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , , ; Gypseous, , ; Field pH 8.5 (Raupach, 0.05); Clear change to -
B21	0.05 - 0.65 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.6); Gradual change to -
B22	0.65 - 1 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.9); Gradual change to -
B23	1 - 2 m	Dark brown (7.5YR3/2-Moist); ; Medium heavy clay; Strong grade of structure; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 1.5);

#### Morphological Notes

#### Observation Notes

#### 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		%
0 - 0.05	7.8A		28B	18	1.6	0.33			
0.05 - 0.65	9A		29B	20	0.57	3.3			
0.65 - 1	8.3A								
1 - 2	8.4A								

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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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension