

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 1347                      **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>	12/08/92	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7957    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7781034 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	335847    Datum: AGD66	<b>Drainage:</b>	Imperfectly 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, No Data

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Lacustrine plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Drainage depression	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Crusty Black Vertosol Non-gravelly Medium fine Very fine Deep		<b>Principal Profile Form:</b>	Ug5.15
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Black earth
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 - Themeda triandra  
Mid Strata - Tree, 1.01-3m, Very sparse. \*Species includes - Eucalyptus platyphylla  
Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus platyphylla

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

#### Profile Morphology

A1	0 - 0.03 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Strong grade of structure, Polyhedral; Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.02); Abrupt change to -
B21	0.03 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, Angular blocky; Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.1); Clear change to -
B22	0.15 - 0.6 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Moderate grade of structure, Lenticular; Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.4); Gradual change to -
B23	0.6 - 1.15 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Moderate grade of structure, Lenticular; Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; , Calcareous, , , , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8 (Raupach, 0.7); Clear change to -
B24	1.15 - 1.4 m	Dark brown (10YR3/3-Moist); ; Light medium clay; Weak grade of structure, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 1.3);

#### 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 - 0.03	6.8A							
0.15 - 0.6	7.1A							
0.6 - 1.15	7.8A							
1.15 - 1.4	8.3A							

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**Laboratory Analyses Completed for this profile**

4A1                      pH of 1:5 soil/water suspension