

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 23                      **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>	27/06/90	<b>Elevation:</b>	170 metres
<b>Map Ref.:</b>	Sheet No. : 8356    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7720815 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	509837    Datum: AGD66	<b>Drainage:</b>	Moderately 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>	Auger boring, Tuff

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	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>	90 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Endocalcareous Self-Mulching Black Vertosol Non-gravelly	<b>Principal Profile Form:</b>	Ug5.13
Medium fine Very fine Shallow		
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Black earth
All necessary analytical data are available.		

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

**Vegetation:** Low Strata - , , . \*Species includes - Bothriochloa pertusa, Bothriochloa bladhii, Chrysopogon fallax  
Mid Strata - , , . \*Species includes - Eucalyptus erythrophloia  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus erythrophloia, Eucalyptus papuana

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

#### Profile Morphology

A1	0 - 0.02 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , , Few, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.02 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.05); Few, fine (1-2mm) roots; Clear, Smooth change to -
B3	0.15 - 0.28 m	Dark brown (7.5YR3/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.2); Few, very fine (0-1mm) roots; Clear, Smooth change to -
C	0.28 - 0.6 m	; Coarse sandy medium clay; Smooth-ped fabric; Moderately moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Tuff, coarse fragments; , Calcareous, , , , Gypseous, , , Soil matrix is Slightly calcareous; Field pH 7 (Raupach, 0.3);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.02 - 0.15	8A		39B	19	1.3	0.19				
0.15 - 0.28	8.2A		32J	12.8	0.3	0.2		42.6I		0.47
0.28 - 0.6	8A		42B	8.9	0.18	0.09				

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension