

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 692 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M.G. Cannon	<b>Locality:</b>	
<b>Date Desc.:</b>	31/07/91	<b>Elevation:</b>	320 metres
<b>Map Ref.:</b>	Sheet No. : 8158 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7813248 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	441945 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>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Fan	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	Gypsic Epipedal Black Vertosol Gravelly Medium fine Very fine Very deep	<b>Mapping Unit:</b>	N/A
		<b>Principal Profile Form:</b>	Ug5.17
<b>ASC Confidence:</b>	All necessary analytical data are available.	<b>Great Soil Group:</b>	Black earth

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Bothriochloa ewartiana, Themeda triandra

Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eucalyptus brownii, Eucalyptus papuana

Tall Strata - Tree, 12.01-20m, Isolated plants. \*Species includes - Eucalyptus brownii, Eucalyptus papuana

**Surface Coarse Fragments:** 10-20%, coarse gravelly, 20-60mm, rounded, Igneous rock (unidentified)

#### Profile Morphology

A11	0 - 0.04 m	Black (10YR2/1-Moist); ; Sandy light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Dry; Strong consistence; , Calcareous, , , , Gypseous, , , Clear, Smooth change to -
B1	0.04 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Sandy medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.05); Clear, Smooth change to -
B21	0.3 - 0.6 m	Very dark grey (2.5Y3/0-Moist); ; Sandy heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Moderately moist; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 8.5 (Raupach, 0.6); Clear, Smooth change to -
2B21k	0.6 - 1.25 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , Field pH 8.5 (Raupach, 0.9); Clear, Smooth change to -
2B22s	1.25 - 1.6 m	Dark grey (10YR4/1-Moist); Mottles, 10YR52, 20-50% , 5-15mm, Prominent; Mottles, 20-50% ; Heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderately moist; Strong consistence; , Calcareous, , , Very many (50 - 100 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 9 (Raupach, 1.5); Clear, Smooth change to -
2B23	1.6 - 1.8 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR58, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence; , Calcareous, , , Many (20 - 50 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 9 (Raupach, 1.8);

#### 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 - 0.04	6.7A								
0.04 - 0.3	7.6A		23.2J	3.3	0.1	0.6		25.8I	2.33
0.3 - 0.6	8.6A								
0.6 - 1.25	8.2A								
1.6 - 1.8	7.9A								

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**Laboratory Analyses Completed for this profile**

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