

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 733 **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>	15/08/91	<b>Elevation:</b>	290 metres
<b>Map Ref.:</b>	Sheet No. : 8158 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7808400 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	419244 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>	Level plain <9m <1%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Calcic Mesonatric Black Sodosol Medium Non-gravelly Clay-loamy Clayey Deep	<b>Principal Profile Form:</b>	Dd1.43
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Solodized solonetz
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 - Bothriochloa ewartiana, Chrysopogon fallax, Aristida species  
Mid Strata - Tree, 1.01-3m, Mid-dense. \*Species includes - Eremophila mitchellii, Atalaya hemiglauc, Terminalia oblongata

Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Acacia harpophylla, Eucalyptus crebra, Eucalyptus polycarpa

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

#### Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear change to -
A2e	0.1 - 0.12 m	Grey (10YR6/1-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , Gypseous, , ; Abrupt change to -
B21	0.12 - 0.35 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Moderate grade of structure, 50-100 mm, Columnar; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , Gypseous, , ; Field pH 9.5 (Raupach, 0.3);
B22k	0.35 - 0.9 m	Yellowish brown (10YR5/4-Moist); ; Sandy light clay; Moderate grade of structure, 50-100 mm, Columnar; Smooth-ped fabric; Dry; Very firm consistence; , Calcareous, , , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.6);
D	0.9 - 1.3 m	Strong brown (7.5YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 1.2);

#### 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 - 0.1	7.2A		5B	2.6	0.63	0.44		
0.12 - 0.35	8.3A		12.7J	7.2	0.2	5.5	20I	27.50
0.35 - 0.9	8.9A		23B	6.5	0.26	6.4		
0.9 - 1.3	9.2A							

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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