

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1654 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	Bright, J (Mitch)	<b>Locality:</b>	
<b>Date Desc.:</b>	28/04/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7958 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7827798 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	324662 Datum: AGD66	<b>Drainage:</b>	Moderately well drained

#### 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>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Manganic Eutrophic Red Ferrosol Thin Moderately gravelly	<b>Principal Profile Form:</b>	Gn4.12
Clay-loamy Clayey Medium		

<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A
Confidence level not specified		

**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 species, Chrysopogon fallax  
Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus papuana, Bursaria incana  
Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra

**Surface Coarse Fragments:** 20-50%, medium gravelly, 6-20mm, subrounded, Ferricrete

#### Profile Morphology

A1	0 - 0.07 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Weak grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Dry; Very weak consistence; Few (2 - 10 %), Ferromanganiferous, , Nodules; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.02); Clear change to -
B2	0.07 - 0.25 m	Dark reddish brown (5YR3/4-Moist); ; Light clay (Heavy); Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Firm consistence; 20-50%, stony, 200-600mm, rounded, dispersed, Basalt, coarse fragments; Many (20 - 50 %), Ferromanganiferous, , Nodules; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.15); Gradual change to -
BC	0.25 - 0.35 m	Reddish brown (5YR4/4-Moist); ; Light clay (Light); Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Firm consistence; 20-50%, stony, 200-600mm, rounded, dispersed, Basalt, coarse fragments; Very many (50 - 100 %), Ferromanganiferous, , Nodules; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Clear change to -
C	0.35 - 0.4 m	; , Calcareous, , , Gypseous, , ;

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.07	5.7A		11B	4.7	1.2	0.19				
0.07 - 0.25										
0.25 - 0.35	5.8A		8.8B	3.2	0.6	0.19				

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**Laboratory Analyses Completed for this profile**

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
4A1	pH of 1:5 soil/water suspension
6A1	Organic carbon - Walkley and Black
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method