

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 59 **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>	24/07/90	<b>Elevation:</b>	280 metres
<b>Map Ref.:</b>	Sheet No. : 8158 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7802736 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	410423 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>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	180 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mottled Eutrophic Red Chromosol Medium Non-gravelly Clay-loamy Clayey Deep	<b>Principal Profile Form:</b>	Dr2.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Non-calcic brown soil

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Bothriochloa ewartiana, Bothriochloa pertusa

Mid Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - Planchonia careya

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus erythrophloia,

Eucalyptus

**Surface Coarse Fragments:** 0-2%, stony, 200-600mm, subrounded, Basalt

#### Profile Morphology

A1	0 - 0.12 m	Dark reddish brown (5YR3/2-Moist); ; Sandy clay loam; Strong grade of structure, 10-20 mm, Polyhedral; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A3	0.12 - 0.28 m	Dark reddish brown (5YR3/3-Moist); ; Sandy light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Common, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.28 - 0.8 m	Red (2.5YR4/8-Moist); Mottles, 10YR46, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Sandy light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.3 (Raupach, 0.3); Field pH 7 (Raupach, 0.6); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22c	0.8 - 1 m	Strong brown (7.5YR5/8-Moist); ; Moist; Many (20 - 50 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules; , Calcareous, , , , Gypseous, , ,

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg			%
0 - 0.12	6.5A		6.4B	1.9	0.74	0.09			
0.28 - 0.8	6.7A		5.5J	2	0.3	0.1	8.11		1.23
0.8 - 1	7.3A								

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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