

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 108                      **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>	21/08/90	<b>Elevation:</b>	380 metres
<b>Map Ref.:</b>	Sheet No. : 8059    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7886031 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	382258    Datum: AGD66	<b>Drainage:</b>	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>	Undisturbed soil core, Schist

## Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<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>	3 %	<b>Aspect:</b>	60 degrees

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

**Erosion:**

## Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Red Chromosol Thin Gravelly Clay-loamy Clayey Shallow	<b>Principal Profile Form:</b>	Dr2.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Non-calcic brown soil
All necessary analytical data are available.		

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

**Vegetation:**

Low Strata - Tussock grass, <0.25m, Sparse. \*Species includes - Eriachne species, Sporobolus species  
Mid Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Eucalyptus erythrophloia  
Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus erythrophloia, Eucalyptus crebra,  
pauana

**Surface Coarse Fragments:** 10-20%, medium gravelly, 6-20mm, angular, Quartz

## Profile Morphology

A1	0 - 0.08 m	Reddish brown (5YR4/3-Moist); ; Clay loam (Heavy); Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; 50-90%, medium gravelly, 6-20mm, angular tabular, dispersed, Schist, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7 (pH meter, 0.05); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.08 - 0.35 m	Red (2.5YR4/8-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; 50-90%, medium gravelly, 6-20mm, angular tabular, dispersed, Schist, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (pH meter, 0.3); Gradual, Smooth change to -
C	0.35 - 0.4 m	; . Calcareous, . , ; . Gypseous, . , ; Field pH 8 (pH meter, 0.4);

## Morphological Notes

## Observation Notes

## Site Notes

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**Laboratory Test Results:**

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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