

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 63 **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>	7806375 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	401681 Datum: AGD66	<b>Drainage:</b>	Well 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>	Undisturbed soil core, Basalt

#### 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>	0 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Red Ferrosol Medium Non-gravelly Clay-loamy Clayey Deep	<b>Principal Profile Form:</b>	Gn3.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Euchrozem

Analytical data are incomplete but reasonable confidence.

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Chloris species, Bothriochloa pertusa, Chrysopogon  
Mid Strata - Tree, 1.01-3m, Isolated plants. \*Species includes - Eucalyptus melanophloia  
Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus melanophloia, Eucalyptus erythrophloia,  
Eucalyptus crebra

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

#### Profile Morphology

A1	0 - 0.12 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; ; Calcareous, ; ; Gypseous, ; ; Field pH 6.8 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change
B21	0.12 - 0.6 m	Red (2.5YR4/6-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; ; Calcareous, ; ; Gypseous, ; ; Field pH 7 (Raupach, 0.3); Field pH 7 (Raupach, 0.6); Common, fine (1-2mm) roots; Clear, Smooth change to -
B22	0.6 - 1 m	Red (2.5YR4/6-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, faint; ; Calcareous, ; ; Gypseous, ; ; Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B/C	1 - 1.15 m	Red (2.5YR4/6-Moist); Substrate influence, 7.5YR58, 20-50% , 5-15mm, Prominent; Substrate influence, 10YR21, 20-50% ; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Many (20 - 50 %), Manganiferous, Coarse (6 - 20 mm), Veins; ; Calcareous, ; ; Gypseous, ; ; Abrupt, Smooth change to -
C	1.15 - 1.2 m	; ; Calcareous, ; ; Gypseous, ; ; Field pH 7.2 (Raupach, 1.2);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Ca	Exchangeable Mg	Cations K	Exchangeable Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.12	6.9A		9.3B	3.9	2.4	0.1				
0.12 - 0.6	6.8A		7.7J	3.9	0.6	0		12.1I		0.00
0.6 - 1	6.8A		5.8B	3.7	0.35	0.15				
1.15 - 1.2	7.5A		11B	7.1	0.09	0.33				

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 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