

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 225                      **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>	03/06/91	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>	Sheet No. : 8258    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7804904 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	457533    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, Granodiorite

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Crest	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	90 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 Moderately 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:**    Extensive clearing, for example poisoning, ringbarking

**Vegetation:**    Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Bothriochloa pertusa, Heteropogon contortus

Mid Strata - , , . \*Species includes - None recorded

Tall Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Eucalyptus crebra, Eucalyptus erythrophloia

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

#### Profile Morphology

A1	0 - 0.07 m	Dark reddish brown (5YR3/2-Moist); ; Sandy clay loam; Moderate grade of structure, 5-10 mm, Granular; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.07 - 0.2 m	Dark reddish brown (5YR3/4-Moist); ; Sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.2 - 0.45 m	Dark red (2.5YR3/6-Moist); Substrate influence, 10YR68, 10-20% , 0-5mm, Prominent; Substrate influence, 10-20% ; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.3); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B/C	0.45 - 0.55 m	Yellowish red (5YR5/6-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Few, very fine (0-1mm) roots; Clear, Smooth change to -
C	0.55 - 0.6 m	; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.6);

#### Morphological Notes

#### Observation 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 - 0.07	6.1A								
0.2 - 0.45	6.6A		8.2J	4.2	0.3	0.2	9.2I		2.17
0.55 - 0.6	7.4A								

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**Laboratory Analyses Completed for this profile**

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