

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 220                      **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>	12/04/91	<b>Elevation:</b>	280 metres
<b>Map Ref.:</b>	Sheet No. : 8257    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7751347 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	488601    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>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Rolling low hills 30-90m 10-32%	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Simple-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Fan	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	9 %	<b>Aspect:</b>	270 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Basic Paralithic Orthic Tenosol Medium Slightly gravelly Sandy Sandy Deep	<b>Principal Profile Form:</b>	Uc5.21
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Earthy sand

All necessary analytical data are available.

**Site Disturbance:** Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Very sparse. \*Species includes - Bothriochloa pertusa  
Mid Strata - Tree, 1.01-3m, Very sparse. \*Species includes - Planchonia careya, Albizia basaltica, Eucalyptus papuana  
Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus crebra, Eucalyptus erythrophloia, Eucalyptus papuana

**Surface Coarse Fragments:** 2-10%, fine gravelly, 2-6mm, angular, Granite

#### Profile Morphology

A1	0 - 0.1 m	Very dark brown (10YR2/3-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear, Smooth
A3	0.1 - 0.28 m	Dark brown (7.5YR3/4-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Dry; Very weak consistence; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Many, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.28 - 0.8 m	Strong brown (7.5YR5/6-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Dry; Very weak consistence; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Organic (humified), Medium (2 -6 mm), Veins; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 0.6); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B22	0.8 - 1.2 m	Yellowish red (5YR4/8-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Dry; Very weak consistence; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Organic (humified), Medium (2 -6 mm), Veins; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 0.9); Few, very fine (0-1mm) roots;

#### Morphological Notes

#### Observation Notes

#### Site Notes

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 220                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	6.8A								
0.1 - 0.28	7.3A								
0.28 - 0.8	7.3A		2.5J	0.6	0.5	0.2		1.7I	11.76
0.8 - 1.2	7.4A								

[illegible][illegible]

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD  
**Project Code:** DLR                      **Site ID:** 220                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

**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