

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 429 **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>	23/09/91	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>	Sheet No. : 8157 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7740516 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	417212 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>	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>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Endohypersodic Epipedal Grey Vertosol Non-gravelly Medium fine Very fine Very deep	<b>Principal Profile Form:</b>	Ug2
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Grey clay

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Eragrostis species, Panicum species  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus brownii

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, rounded, Detrital sedimentary rock (unidentified)

#### Profile Morphology

A1	0 - 0.05 m	Greyish brown (10YR5/2-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Detrital sedimentary rock (unidentified), coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Clear change to -
A2e	0.05 - 0.12 m	Light brownish grey (10YR6/2-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Detrital sedimentary rock (unidentified), coarse fragments; , Calcareous, , , Gypseous, , ; Abrupt change to -
B21	0.12 - 1 m	Greyish brown (2.5Y5/2-Moist); Mottles, 10YR6/1, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Detrital sedimentary rock (unidentified), coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Veins; , Calcareous, , , Gypseous, , ; Field pH 8.5 (Raupach, 0.6); Clear change to -
B22	1 - 2.4 m	Pale brown (10YR6/3-Moist); Mottles, 7.5YR5/8, 10-20% , 15-30mm, Prominent; Mottles, 10-20% ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Detrital sedimentary rock (unidentified), coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 4.5 (Raupach, 1.8);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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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