

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 433 **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>	24/09/91	<b>Elevation:</b>	280 metres
<b>Map Ref.:</b>	Sheet No. : 8157 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7738620 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	414352 Datum: AGD66	<b>Drainage:</b>	Poorly 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>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plain
<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>	1 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mottled Massive Grey Vertosol Non-gravelly Medium fine Very fine Deep	<b>Principal Profile Form:</b>	Ug5.5
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Grey clay
No analytical data are available but confidence is fair.		

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

**Vegetation:** Low Strata - , , . \*Species includes - None recorded  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Acacia harpophylla

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

#### Profile Morphology

A1	0 - 0.06 m	Brown (10YR5/3-Moist); Mottles, 2.5Y51, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.05); Abrupt change to -
A3	0.06 - 0.25 m	Grey (2.5Y5/1-Moist); Mottles, 2.5Y61, 10-20% , 5-15mm, Distinct; Mottles, 7.5YR58, 10-20% ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; , Calcareous, , , , Gypseous, , , Clear change to -
B21	0.25 - 0.52 m	Greyish brown (2.5Y5/3-Moist); Mottles, 2.5Y61, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Heavy clay; Weak grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.3); Clear change to -
B22	0.52 - 0.95 m	Yellowish brown (10YR5/4-Moist); Mottles, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Heavy clay; Weak grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 9 (Raupach, 0.6); Clear change to -
B23	0.95 - 1.1 m	Yellowish brown (10YR5/4-Moist); Mottles, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Heavy clay; Weak grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Manganiferous, Medium (2 - 6 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 1.1);

#### 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