

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 72                      **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>	25/07/90	<b>Elevation:</b>	350 metres
<b>Map Ref.:</b>	Sheet No. : 8057    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7759478 AMG zone: 55	<b>Runoff:</b>	Very rapid
<b>Easting/Lat.:</b>	375393    Datum: AGD66	<b>Drainage:</b>	Moderately 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>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Open depression (vale)	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	5 %	<b>Aspect:</b>	180 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Eutrophic Mottled-Subnatric Brown Sodosol Medium	<b>Principal Profile Form:</b>	Db2.33
Moderately gravelly Clay-loamy Clayey Moderately deep	<b>Great Soil Group:</b>	Solodic soil
<b>ASC Confidence:</b>		
All necessary analytical data are available.		

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Eragrostis species, Aristida species  
Mid Strata - Tree, 1.01-3m, Very sparse. \*Species includes - Eucalyptus crebra, Albizia basaltica, Acacia species  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Eucalyptus crebra, Eucalyptus erythrophloia, Eucalyptus papuana

**Surface Coarse Fragments:** 20-50%, cobbly, 60-200mm, angular, Granodiorite

#### Profile Morphology

A1	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , Gypseous, , , Field pH 5 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to
A2j	0.12 - 0.25 m	Yellowish brown (10YR5/4-Moist); ; Coarse sandy loam; Massive grade of structure, 20-50 mm; Earthy fabric; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersed, coarse fragments; , Calcareous, , , Gypseous, , , Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.25 - 0.3 m	Yellowish brown (10YR5/4-Moist); Mottles, 10YR68; Mottles; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , , Gypseous, , , Field pH 7 (Raupach, 0.3); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B22	0.3 - 0.5 m	Olive brown (2.5Y4/4-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , , Gypseous, , , Soil matrix is Very highly calcareous; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B/C	0.5 - 0.75 m	Light olive brown (2.5Y5/4-Moist); ; Strong grade of structure, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , , Soil matrix is Very highly calcareous; Field pH 9 (Raupach, 0.6); Gradual, Smooth change to -
C	0.75 - 1 m	; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , , Field pH 9 (Raupach, 1);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Ca	Cations Mg	K	Na Exchangeable Acidity Cmol (+)/kg	CEC	ECEC	ESP %
m		dS/m							
0 - 0.12	5.8A		4.1B	2.5	0.34	0.08			
0.25 - 0.3	7.5A		12.5J	7.3	0.3	1.3	22.6I		5.75
0.5 - 0.75	8.9A								
0.75 -	9.3A								

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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