

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 81 **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>	27/07/90	<b>Elevation:</b>	350 metres
<b>Map Ref.:</b>	Sheet No. : 8157 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7771845 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	412180 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>	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>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	50 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Red Chromosol Thin Slightly 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
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, Sparse. \*Species includes - Bothriochloa pertusa, Aristida species  
Mid Strata - Tree, 1.01-3m, Very sparse. \*Species includes - Eucalyptus crebra, Eucalyptus erythrophloia,

Bursaria incana

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus erythrophloia,

Eucalyptus

**Surface Coarse Fragments:** 2-10%, coarse gravelly, 20-60mm, angular, Quartz

#### Profile Morphology

A1	0 - 0.08 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, medium (2-5mm) roots; Abrupt, Smooth
B21	0.08 - 0.68 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Moist; Weak consistence; Many cutans, >50% of ped faces or walls coated, distinct; , Calcareous, , , Gypseous, , ; Field pH 6.8 (Raupach, 0.3); Common, medium (2-5mm) roots; Clear, Smooth change to -
B22	0.68 - 0.92 m	Dark red (2.5YR3/5-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Granodiorite, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; , Calcareous, , , Gypseous, , ; Field pH 8 (Raupach, 0.9); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
BC	0.92 - 1.05 m	Reddish brown (5YR4/4-Moist); Substrate influence, 5YR46, 10-20% , 0-5mm, Faint; Substrate influence, 10-20% ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersed, Granodiorite, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; , Calcareous, , , Gypseous, , ; Abrupt, Smooth change to -
C	1.05 - 1.3 m	Reddish yellow (7.5YR6/8-Moist); , , Calcareous, , , Gypseous, , ; Field pH 8 (Raupach, 1.3);

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.08	6.6A		4.7B	2.5	0.47	0.04				
0.08 - 0.68	6.9A		9.8J	4.9	0.2	0.2		17.1I		1.17
0.68 - 0.92	8.6A									
1.05 - 1.3	8.9A		16B	6.1	0.12	0.42				

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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