

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 682 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b> M.G. Cannon	<b>Locality:</b>
<b>Date Desc.:</b> 27/07/91	<b>Elevation:</b> 340 metres
<b>Map Ref.:</b> Sheet No. : 8258 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7815632 AMG zone: 55	<b>Runoff:</b> Moderately rapid
<b>Easting/Lat.:</b> 455096 Datum: AGD66	<b>Drainage:</b> Imperfectly 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> Flat	<b>Relief:</b> No Data
<b>Elem. Type:</b> Fan	<b>Slope Category:</b> Level
<b>Slope:</b> 3 %	<b>Aspect:</b> No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Haplic Eutrophic Red Chromosol Medium Non-gravelly Loamy Clayey Moderately deep	<b>Principal Profile Form:</b> Dy2.23
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> No suitable

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, 1.01-3m, Mid-dense. \*Species includes - Heteropogon contortus, Bothriochloa pertusa, Chrysopogon fallax Mid Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus crebra, Acacia salicina, Eucalyptus papuana

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra

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

#### Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Diffuse, Smooth change to -
A3	0.1 - 0.25 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam (Light); Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , Clear, Smooth change to -
B1	0.25 - 0.4 m	Dark red (2.5YR3/6-Moist); ; Sandy light clay; Moderate grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.3); Clear, Smooth change to -
B21	0.4 - 0.7 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Granodiorite, coarse fragments; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.6); Clear, Smooth change to -
B/C	0.7 - 1.05 m	Yellowish brown (10YR5/6-Moist); ; Sandy medium clay; Strong grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.9); Gradual, Wavy change to -
C	1.05 - 1.4 m	; Massive grade of structure; Moist; Weak consistence; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 9 (Raupach, 1.4);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0.25 - 0.4	5.9A								
0.4 - 0.7	6.4A		8.9B	4.4	0.12	0.2			
0.7 - 1.05	6.8A								
1.05 - 1.4	7A								

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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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension