

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 1269                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

**Site Information**

<b>Desc. By:</b>	Rogers, Gary	<b>Locality:</b>	
<b>Date Desc.:</b>	20/07/92	<b>Elevation:</b>	340 metres
<b>Map Ref.:</b>	Sheet No. : 8059    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7860642 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	382244    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>	Undisturbed soil core, No Data

**Land Form**

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	4 %	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Eutrophic Brown Dermosol Medium Gravelly Clay-loamy Clayey Deep		<b>Principal Profile Form:</b>	Dr2.12
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	No suitable group

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 - Heteropogon contortus, Aristida species  
Mid Strata - Tree, 3.01-6m, Mid-dense. \*Species includes - Eremophila mitchellii, Atalaya hemiglauc,

Terminalia

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

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

**Profile Morphology**

A11	0 - 0.13 m	Dark brown (7.5YR3/3-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Clear change to -
B1	0.13 - 0.3 m	Dark reddish brown (2.5YR3/3-Moist); ; Sandy light clay; Massive grade of structure; Weak grade of structure, Subangular blocky; Earthy fabric; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.2); Clear change to -
B21	0.3 - 0.8 m	Red (10R4/6-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.5); Gradual change to -
B22	0.8 - 1.1 m	Reddish brown (5YR4/4-Moist); Mottles, 5YR4/6, 10-20% , Prominent; Mottles, 10-20% ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 8 (Raupach, 1);

**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 - 0.13	6.7A		5B	5.1	0.34	0.08			
0.13 - 0.3	5.9A								
0.3 - 0.8	6.1A		9.6B	8.7	0.15	0.29			
0.8 - 1.1	7.2A								

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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