

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1435 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	Bright, J (Mitch)	<b>Locality:</b>	
<b>Date Desc.:</b>	30/09/92	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8056 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7694981 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	386770 Datum: AGD66	<b>Drainage:</b>	Moderately 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, No Data

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Brown Chromosol Medium Non-gravelly Clay-loamy Clayey Moderately deep		<b>Principal Profile Form:</b>	Db1.13
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Solodic 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 - Aristida species, Sporobolus caroli, Dichanthium

Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eremophila mitchellii, Eucalyptus species

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

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, rounded, Ferricrete

#### Profile Morphology

A1	0 - 0.05 m	Dark brown (10YR3/3-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear change to -
A3	0.05 - 0.25 m	Brown (10YR4/3-Moist); ; Clay loam, sandy; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.15); Clear change to -
B21	0.25 - 0.4 m	Brown (10YR4/3-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Dry; Very strong consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Gradual change to -
B22	0.4 - 0.6 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.6);

#### Morphological Notes

#### Observation Notes

#### Site 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 - 0.05	6.5A		3.8B	2	0.44	0.06				
0.25 - 0.4	6.8A									
0.4 - 0.6	8.2A		9B	5.7	0.57	0.46				

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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