

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2308 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	Barry, Earl	<b>Locality:</b>	
<b>Date Desc.:</b>	11/05/94	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8060 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7902373 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	362411 Datum: AGD66	<b>Drainage:</b>	Imperfectly 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>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Calcic Mottled-Subnatric Brown Sodosol Medium Non-gravelly Loamy Clayey Deep	<b>Principal Profile Form:</b>	Db2.43
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Solodic soil

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Bothriochloa decipiens, Aristida species, Eragrostis species  
Mid Strata - Tree, 1.01-3m, Sparse. \*Species includes - Atalaya hemiglauca, Eucalyptus brownii

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

**Surface Coarse Fragments:** 0-2%, fine gravelly, 2-6mm, subangular, Quartz

#### Profile Morphology

A11	0 - 0.1 m	Brown (10YR4/3-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Dry; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Clear change to -
A2e	0.1 - 0.23 m	Light yellowish brown (10YR6/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.2); Clear change to -
B21	0.23 - 0.6 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 10YR58, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; 10-20%, medium gravelly, 6-20mm, subangular, Metamorphic rock (unidentified), coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 8 (Raupach, 0.4); Gradual change to -
B22k	0.6 - 1.2 m	Yellowish brown (10YR5/6-Moist); ; Medium clay; Smooth-ped fabric; Moderately moist; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 9 (Raupach, 1.2);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations		Exchangeable Acidity		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na			%
						Cmol (+)/kg			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt Clay
								%	

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m					g/g - m3/m3				mm/h mm/h

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Laboratory Analyses Completed for this profile