

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1846 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: Barry, Earl	Locality:
Date Desc.: 06/07/93	Elevation: No Data
Map Ref.: Sheet No. : 8155 GPS	Rainfall: No Data
Northing/Long.: 7676343 AMG zone: 55	Runoff: Rapid
Easting/Lat.: 421766 Datum: AGD66	Drainage: Moderately well drained

Geology

Exposure Type: No Data	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: Undisturbed soil core, Siltstone

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%	Pattern Type: Plain
Morph. Type: No Data	Relief: No Data
Elem. Type: Plain	Slope Category: Very gently sloped
Slope: 2 %	Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Hypocalcic Subnatric Brown Sodosol	Principal Profile Form: Db1.43
ASC Confidence:	Great Soil Group: Solodic soil
Confidence level not specified	

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Isolated plants. *Species includes - Unknown species, Unknown species,

Unknown species Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus brownii, Eucalyptus papuana

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

Profile Morphology

A11	0 - 0.08 m	Dark brown (7.5YR3/4-Moist); ; Clay loam, fine sandy; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Abrupt change to -
A2e	0.08 - 0.1 m	Brown (7.5YR4/4-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.1); Sharp change to -
B21	0.1 - 0.32 m	Dark brown (7.5YR3/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.3); Gradual change to -
B22k	0.32 - 0.63 m	Strong brown (7.5YR4/6-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 0.6); Clear change to -
BC	0.63 - 0.9 m	Brown (7.5YR5/4-Moist); ; Medium clay; Weak grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach, 0.8); Field pH 8.5 (Raupach, 0.9);
C	0.9 - 0.95 m	; , Calcareous, , , , Gypseous, , ;

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			%		
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
Depth	COLE	Gravimetric/Volumetric Water Contents						K sat		K unsat		
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
					g/g -	m3/m3				mm/h	mm/h	

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Laboratory Analyses Completed for this profile