

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1885 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Barry, Earl	Locality:	
Date Desc.:	09/09/93	Elevation:	No Data
Map Ref.:	Sheet No. : 7958 GPS	Rainfall:	No Data
Northing/Long.:	7837921 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	293862 Datum: AGD66	Drainage:	Imperfectly drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

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

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Endocalcareous Self-Mulching Black Vertosol		Principal Profile Form:	Ug5.1
ASC Confidence:		Great Soil Group:	Black earth

No analytical data are available but confidence is fair.

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Eulalia aurea
Mid Strata - , , . *Species includes - None recorded
Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus orgadophylla

Surface Coarse Fragments: 20-50%, cobbly, 60-200mm, subrounded, Basalt

Profile Morphology

A11	0 - 0.03 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Rough-ped fabric; Dry; Weak consistence; , Calcareous, , , Gypseous, , ; Field pH 7.5 (Raupach, 0.02); Abrupt change to -
B21	0.03 - 0.5 m	Dark olive grey (5Y3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Rigid consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , Gypseous, , ; Field pH 8 (Raupach, 0.4); Diffuse change to -
B22	0.5 - 1.05 m	Dark olive grey (5Y3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 1); Diffuse change to -
BC	1.05 - 1.6 m	Dark reddish brown (2.5YR2/4-Moist); , 2.5Y54; Light medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Soft segregations; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 9 (Raupach, 1.5);

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