

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1913 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	26/05/93	Elevation:	No Data
Map Ref.:	Sheet No. : 8255 GPS	Rainfall:	No Data
Northing/Long.:	7648908 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	485621 Datum: AGD66	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	4 %	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 Non-gravelly	Principal Profile Form:	Ug
Medium fine Very fine Deep	Great Soil Group:	Black earth

ASC Confidence:
No analytical data are available but confidence is fair.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, <0.25m, Isolated plants. *Species includes - None recorded
Mid Strata - Tree, 6.01-12m, Very sparse. *Species includes - Lysiphillum carronii, Eucalyptus erythrophloia
Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus erythrophloia

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.06 m	Dark brown (7.5YR3/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 9.5 (Raupach, 0.03); Clear change to -
B21	0.06 - 0.4 m	Dusky red (2.5YR3/2-Moist); Mottles, 2.5YR32, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.2); Gradual change to -
B22	0.4 - 0.8 m	Dark olive grey (5Y3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 0.55); Gradual change to -
B31	0.8 - 1.05 m	Olive yellow (2.5Y6/6-Moist); ; Light clay; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach, 1); Clear change to -
B32	1.05 - 1.35 m	Greyish brown (2.5Y5/3-Moist); ; Light clay; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9 (Raupach, 1.3);

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