

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1936 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	23/09/93	Elevation:	No Data
Map Ref.:	Sheet No. : 7858 GPS	Rainfall:	No Data
Northing/Long.:	7825230 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	255949 Datum: AGD66	Drainage:	Imperfectly 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:	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 Non-gravelly	Principal Profile Form:	Ug5.16
Medium fine Very fine Very deep	Great Soil Group:	Black earth

ASC Confidence:
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, Very sparse. *Species includes - Dichanthium species
Mid Strata - , , . *Species includes - None recorded
Tall Strata - , , . *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Very dark greyish brown (2.5Y3/2-Moist); ; Light medium clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach, 0.03); Clear change to -
B21	0.05 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , Gypseous, , ; Field pH 9 (Raupach, 0.1); Gradual change to -
B22	0.2 - 0.8 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 9 (Raupach, 0.4); Diffuse change to -
B23	0.8 - 1.7 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Moderately moist; Firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Concretions; , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 9 (Raupach, 1); Gradual change to -
B24	1.7 - 2 m	Greyish brown (10YR5/2-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Moderately moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 9 (Raupach, 1.8); Gradual change to -
B25	2 - 2.2 m	Light brownish grey (2.5Y6/2-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 9 (Raupach, 2.2);

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