

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 2433 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	12/01/94	Elevation:	No Data
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7800055 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	416696 Datum: AGD66	Drainage:	No Data

Geology

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

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
Calcic Mottled-Subnatric Brown Sodosol Thick Slightly gravelly Clay-loamy Clayey Very deep	Principal Profile Form:	Db2.23
ASC Confidence:	Great Soil Group:	Solodic soil
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, 0.26-0.5m, Very sparse. *Species includes - Bothriochloa ewartiana, Chrysopogon fallax,

Aristida species Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Atalaya hemiglauca, Eucalyptus species, Eremophila mitchellii

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus brownii, Owenia acidula, Grevillea parallela

Surface Coarse Fragments: 2-10%, bouldery, 600mm-2m, rounded, Basalt

Profile Morphology

A11	0 - 0.05 m	Dark brown (10YR3/3-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Moist; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 5.5 (Raupach, 0.03); Clear
A12	0.05 - 0.2 m	Dark yellowish brown (10YR3/4-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 5.5 (Raupach, 0.1); Field pH 6 (Raupach, 0.15); Abrupt change to -
A2	0.2 - 0.3 m	Brown (10YR4/3-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Abrupt change to -
B21	0.3 - 0.6 m	Dark greyish brown (2.5Y4/3-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 8 (Raupach, 0.4); Clear change to -
B22	0.6 - 1.05 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; Few cutans, <10% of ped faces or walls coated; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , , Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 0.8); Gradual change to -
B23	1.05 - 1.6 m	Yellowish brown (10YR5/4-Moist); Mottles, 2.5Y43, 10-20% , 5-15mm, Faint; Mottles, 10-20% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 1.4);

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	Acidity					%
						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	
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