

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 36 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	17/07/90	Elevation:	360 metres
Map Ref.:	Sheet No. : 8157 GPS	Rainfall:	No Data
Northing/Long.:	7773654 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	404770 Datum: AGD66	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	220 degrees

Surface Soil Condition (dry): Surface crust, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Regolithic Bleached-Leptic Tenosol Medium Non-gravelly Sandy Shallow	Principal Profile Form:	Uc4.11
ASC Confidence:	Great Soil Group:	Siliceous sand

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Aristida species, Chrysopogon fallax, Eragrostis

Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Petalostigma pubescens, Acacia species

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra, Acacia species, Eucalyptus

erythrophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.04); Few, medium (2-5mm) roots; Abrupt, Smooth change to -
A12	0.04 - 0.2 m	Brown (10YR5/3-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 0-2%, coarse gravelly, 20-60mm, subangular, dispersed, Substrate material, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.2); Few, fine (1-2mm) roots; Gradual, Smooth change to -
A2	0.2 - 0.35 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, dispersed, Substrate material, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.35); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
C	0.35 - 0.4 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	%
0 - 0.04	6.6A		0.85B	0.35	0.16	0.04		
0.04 - 0.2	6.8A							
0.2 - 0.35	6.8A		0.55B	0.41	0.1	0.06	2.71	2.22
			0.4J	0.3	0.1	0.2		7.41

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension