

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 3 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	19/06/90	Elevation:	340 metres
Map Ref.:	Sheet No. : 8258 GPS	Rainfall:	No Data
Northing/Long.:	7798773 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	462205 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, Shale

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	80 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Paralithic Orthic Tenosol Medium Slightly gravelly Loamy Clay-loamy Shallow	Principal Profile Form:	Uc5.23
ASC Confidence:	Great Soil Group:	Earthy sand

All necessary analytical data are available.

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

Vegetation: Low Strata - , , . *Species includes - Digitaria species, Phynchelytrum repens, Chrysopogon fallax
Mid Strata - , , . *Species includes - Eucalyptus brownii, Grevillea striata, Eucalyptus crebra
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus brownii, Eucalyptus crebra

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, angular, Quartz

Profile Morphology

A1	0 - 0.1 m	Brown (10YR4/3-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A3	0.1 - 0.3 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Shale, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.3 (Raupach, 0.3); Few, very fine (0-1mm) roots; Sharp, Smooth change to -
C	0.3 - 0.7 m	Brownish yellow (10YR6/8-Moist); Substrate influence, 5YR68, 2-10% , 0-5mm, Prominent; Substrate influence, 2.5YR58, 2-10% ; Clay loam; Moderate grade of structure, 10-20 mm, Platy; Smooth-ped fabric; Moist; Firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.5);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	8A		1.5B	0.82	0.15	0.07				
0.1 - 0.3	7.6A									
0.3 - 0.7	8A		1.5B	4.8	0.08	0.43		9.8I		4.39
			1.7J	5	0.1	0.5				5.10

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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