

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 292 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	02/07/91	Elevation:	270 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7748185 AMG zone: 55	Runoff:	Very rapid
Easting/Lat.:	456199 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Existing vertical exposure, Metamorphic rock (unidentified)

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	80 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Eutrophic Mottled-Subnatric Grey Sodosol Medium Gravelly Sandy Clayey Moderately deep		Principal Profile Form:	Dy3.43
ASC Confidence:		Great Soil Group:	Solodic soil

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, Very sparse. *Species includes - Eriachne species, Chrysopogon fallax
Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eremophila mitchellii
Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm, angular, Ferricrete

Profile Morphology

A2j	0 - 0.03 m	Light brownish grey (10YR6/2-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; , Calcareous, , , Gypseous, , ; Abrupt, Smooth change to -
A2e	0.03 - 0.2 m	Light grey (10YR7/1-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Firm consistence; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Abrupt, Smooth change to -
B1	0.2 - 0.4 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 7 (Raupach, 0.3); Abrupt, Smooth change to -
B21	0.4 - 0.55 m	Greyish brown (10YR5/2-Moist); Mottles, 7.5YR58, 20-50% , 5-15mm, Prominent; Mottles, 20-50% ; Coarse sandy light clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , Gypseous, , ; Abrupt, Smooth change to -
2C	0.55 - 0.75 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 9.9 (Raupach, 0.6); Abrupt, Smooth change to -
3C	0.75 - 0.85 m	; , Calcareous, , , Gypseous, , ;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.03 - 0.2	6.4A									
0.2 - 0.4	8A									
0.55 - 0.75	9.7A		5.1J	2.4	0.1	1.1		6.4I		17.19

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Laboratory Analyses Completed for this profile

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