

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 508 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	09/04/91	Elevation:	280 metres
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7818598 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	440011 Datum: AGD66	Drainage:	Rapidly drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Levee	Slope Category:	Very gently sloped
Slope:	3 %	Aspect:	290 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Sodic Eutrophic Brown Dermosol Thick Non-gravelly Sandy Clay-loamy Very deep	Mapping Unit:	N/A
ASC Confidence:	No analytical data are available but confidence is fair.	Principal Profile Form:	Gn3.72
		Great Soil Group:	No suitable

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Urochloa mosambicensis, Heteropogon contortus,
Bothriochloa pertusa Mid Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus platyphylla, Eucalyptus crebra

Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus platyphylla,

Eucalyptus

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.05 m	Brown (7.5YR4/3-Moist); ; Loamy sand; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.05 - 0.2 m	Brown (7.5YR4/4-Moist); ; Loamy sand; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Common, fine (1-2mm) roots; Clear, Smooth change to -
A13	0.2 - 0.55 m	Brown (7.5YR5/4-Moist); ; Fine sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.3); Common, fine (1-2mm) roots; Sharp, Smooth change to -
B21	0.55 - 1 m	Yellowish red (5YR5/6-Moist); ; Fine sandy clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 0.9); Diffuse, Smooth change to -
B22	1 - 1.4 m	Strong brown (7.5YR5/6-Moist); ; Fine sandy clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 1.2); Diffuse, Smooth change to -
B3	1.4 - 2 m	Strong brown (7.5YR5/6-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 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		%
0 - 0.05	7.5A								
0.2 - 0.55	7.4A								
0.55 - 1	7.5A		4.9J	1.3	0.8	0.3		5.3I	5.66
1 - 1.4	7.5A								
1.4 - 2	7.8A								

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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