

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 513 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	10/04/91	Elevation:	240 metres
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7790750 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	442196 Datum: AGD66	Drainage:	Rapidly drained

Geology

ExposureType:	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:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Terrace flat	Slope Category:	Level
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Brown Dermosol Thick Non-gravelly Loamy Clayey Very deep		Principal Profile Form:	Gn3.22
ASC Confidence:		Great Soil Group:	No suitable
All necessary analytical data are available.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Bothriochloa pertusa, Chloris gayana, Chloris
species Mid Strata - Shrub, 1.01-3m, Isolated clumps. *Species includes - Acacia farnesiana
Tall Strata - Tree, 20.01-35m, Very sparse. *Species includes - Eucalyptus tessellaris

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.12 m	Dark brown (7.5YR3/2-Moist); ; Fine sandy loam; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.05); Gradual, Smooth change to -
A12	0.12 - 0.5 m	Dark brown (10YR3/3-Moist); ; Fine sandy loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.3); Diffuse, Smooth change to -
B1	0.5 - 0.8 m	Brown (7.5YR4/3-Moist); ; Fine sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.6); Gradual, Smooth change to -
B21	0.8 - 1.1 m	Brown (7.5YR4/2-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.9); Diffuse, Smooth change to -
B22	1.1 - 1.6 m	Brown (7.5YR4/4-Moist); ; Fine sandy light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 1.2); Field pH 8 (Raupach, 1.5); Diffuse, Smooth change to -
B3	1.6 - 2.1 m	Strong brown (7.5YR5/6-Moist); ; Fine sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , 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 - 0.12	6.5A								
0.12 - 0.5	7A								
0.5 - 0.8	7.3A								
0.8 - 1.1	7.5A		10.6J	3.4	0.5	0.5		14.2I	3.52
1.1 - 1.6	7.5A								
1.6 - 2.1	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