

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 543 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	19/06/91	Elevation:	No Data
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7790020 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	412790 Datum: AGD66	Drainage:	No Data

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Terrace (alluvial)
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Levee	Slope Category:	Gently inclined
Slope:	3 %	Aspect:	270 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mesotrophic Subnatric Brown Sodosol Very thick Non-gravelly Sandy Clayey Very deep	Principal Profile Form:	Db1.12
ASC Confidence:	Great Soil Group:	Solodic soil

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Phynchelytrum repens, Heteropogon contortus

Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eremophila mitchellii

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

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.03 m	Strong brown (7.5YR4/6-Moist); ; Fine sand; Weak grade of structure, 5-10 mm, Subangular blocky; , Calcareous, , , , Gypseous, , ; Clear change to -
A12	0.03 - 0.5 m	Brown (7.5YR4/4-Moist); ; Fine sand; Massive grade of structure; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Diffuse change to -
A3	0.5 - 0.9 m	Strong brown (7.5YR4/6-Moist); ; Fine sand; Massive grade of structure; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.6); Field pH 7 (Raupach, 0.9); Abrupt change to -
B2	0.9 - 1.2 m	Strong brown (7.5YR4/6-Moist); ; Sandy light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 1.2); Abrupt change to -
2Ab	1.2 - 1.4 m	Dark brown (10YR3/3-Moist); ; Silty medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; , Calcareous, , , , Gypseous, , , ; Clear change to -
2Bb	1.4 - 1.7 m	Strong brown (7.5YR4/6-Moist); ; Silty light medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 1.5); Abrupt change to -
2Cb	1.7 - 1.8 m	; Loamy sand; Single grain grade of structure; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 1.8);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0.03 - 0.5	6.4A								
0.5 - 0.9	6.5A								
0.9 - 1.2	6.7A		2.2J	1.8	0.2	0.4	4.1I		9.76
1.2 - 1.4	6.7A								
1.4 - 1.7	7.1A								
1.7 - 1.8	7.1A								

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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