

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 351 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	01/08/91	Elevation:	340 metres
Map Ref.:	Sheet No. : 8157 GPS	Rainfall:	No Data
Northing/Long.:	7749800 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	406206 Datum: AGD66	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Level
Slope:	1 %	Aspect:	120 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Brown Chromosol Medium Non-gravelly		Principal Profile Form:	Dy2.12
Sandy Clayey Moderately deep			
ASC Confidence:		Great Soil Group:	No suitable
All necessary analytical data are available.			

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Closed or dense. *Species includes - Bothriochloa pertusa, Bothriochloa ewartiana
Mid Strata - , , . *Species includes - None recorded
Tall Strata - , , . *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy fine sand; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear, Smooth change to -
A3	0.08 - 0.18 m	Brown (7.5YR4/3-Moist); ; Clay loam, sandy; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Abrupt, Smooth change to -
B1	0.18 - 0.35 m	Brown (7.5YR4/4-Moist); Mottles, 7.5YR5/8, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Light clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Clear, Smooth change to -
B21	0.35 - 0.6 m	Yellowish brown (10YR5/6-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Metamorphic rock (unidentified), coarse fragments; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 0.6); Clear, Smooth change to -
B3	0.6 - 0.7 m	; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; 50-90%, medium gravelly, 6-20mm, angular, dispersed, Metamorphic rock (unidentified), coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , , , Gypseous, , ; Clear, Smooth change to -
C	0.7 - 0.75 m	; , Calcareous, , , , Gypseous, , ;

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 - 0.08	6.7A									
0.18 - 0.35	6.8A									
0.35 - 0.6	7.1A		7.8J	7.3	0	0.3		16.8I		1.79

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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