

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 695 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M.G. Cannon	Locality:
Date Desc.: 31/07/91	Elevation: 350 metres
Map Ref.: Sheet No. : 8158 GPS	Rainfall: No Data
Northing/Long.: 7825410 AMG zone: 55	Runoff: No Data
Easting/Lat.: 438793 Datum: AGD66	Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%	Pattern Type: Plain
Morph. Type: Flat	Relief: No Data
Elem. Type: Plain	Slope Category: Level
Slope: 1 %	Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Calcic Subnatric Grey Sodosol Medium Non-gravelly Clay-loamy Clayey Deep	Principal Profile Form: Dy2.43
ASC Confidence:	Great Soil Group: Solodic soil

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Closed or dense. *Species includes - *Dicanthium fecundum*, *Heteropogon bidwillii*

Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - *Eucalyptus papuana*, *Eucalyptus crebra*, *Acacia*

Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - *Eucalyptus brownii*, *Eucalyptus papuana*, *Eucalyptus*

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.08 m	Dark brown (10YR3/3-Moist); ; Fine sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Weak consistence; ; Calcareous, , , ; Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Few, fine (1-2mm) roots; Clear, Smooth change to -
A21	0.08 - 0.2 m	Yellowish brown (10YR5/4-Moist); ; Fine sandy clay loam; Weak grade of structure, 50-100 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; ; Calcareous, , , ; Gypseous, , ; Few, fine (1-2mm) roots; Gradual, Smooth change to -
A22e	0.2 - 0.28 m	Brown (10YR5/3-Moist); ; Fine sandy clay loam (Light); Weak grade of structure, 50-100 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; ; Calcareous, , , ; Gypseous, , ; Few, fine (1-2mm) roots; Abrupt, Wavy change to -
B21	0.28 - 0.5 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Manganiferous, , Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 6 (Raupach, 0.3); Clear change to -
B22	0.5 - 1.05 m	Dark brown (10YR3/3-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Manganiferous, , Nodules; , Calcareous, , , ; Gypseous, , ; Field pH 8.5 (Raupach, 0.9); Clear change to -
C	1.05 - 1.3 m	; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; , Calcareous, , , ; Gypseous, , ; Field pH 8.5 (Raupach, 1.3);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Ca	Cations Mg	K	Na Cmol (+)/kg	CEC	ECEC	ESP %
m		dS/m							
0 - 0.08	6.5A								
0.28 - 0.5	6.9A		10.6J	8.5	0.1	1.9	21.1I		9.0D
0.5 - 1.05	8.8A								
1.05 - 1.3	8.5A								

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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