

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 630 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M.G. Cannon	Locality:
Date Desc.: 28/05/91	Elevation: No Data
Map Ref.: Sheet No. : 8158-1 GPS	Rainfall: No Data
Northing/Long.: 7840940 AMG zone: 55	Runoff: Slow
Easting/Lat.: 430869 Datum: AGD66	Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%	Pattern Type: Plain
Morph. Type: Crest	Relief: No Data
Elem. Type: Plain	Slope Category: Level
Slope: 1 %	Aspect: 205 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Eutrophic Subnatic Brown Sodosol Thick Non-gravelly Sandy Clayey Deep	Principal Profile Form: Dy2.33
ASC Confidence:	Great Soil Group: Solodic soil

No analytical data are available but confidence is fair.

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - Heteropogon contortus, Bothriochloa species,

Stylosanthes hamata Mid Strata - , , . *Species includes - None recorded

Tall Strata - , , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sand; Moderate grade of structure, 10-20 mm, Platy; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 5.8 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear change to -
A12	0.1 - 0.25 m	Brown (10YR4/3-Moist); ; Sand; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Prismatic; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Common, fine (1-2mm) roots; Clear change to -
A2j	0.25 - 0.38 m	Yellowish brown (10YR5/6-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Dry; Loose consistence; Very many (50 - 100 %), Ferruginous, Medium (2 -6 mm), Concretions; , Calcareous, , , , Gypseous, , ; Field pH 5.8 (Raupach, 0.3); Few, very fine (0-1mm) roots; Abrupt change to -
B21	0.38 - 0.8 m	Strong brown (7.5YR5/8-Moist); ; Light medium clay; Strong grade of structure, 50-100 mm, Angular blocky; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.5); Gradual change to -
B22	0.8 - 1.1 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Strong grade of structure, 100-200 mm, Lenticular; Moderate grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Sandstone, coarse fragments; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 1); Clear change to -
C	1.1 - 1.5 m	; , 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 - 0.1	6.1A							
0.38 - 0.8	6.3A							
0.8 - 1.1	9.4A							
1.1 - 1.6	7.1A							

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Laboratory Analyses Completed for this profile

4A1 pH of 1:5 soil/water suspension