

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 148 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte	Locality:
Date Desc.: 07/09/90	Elevation: 395 metres
Map Ref.: Sheet No. : 8060 GPS	Rainfall: No Data
Northing/Long.: 7905872 AMG zone: 55	Runoff: Very rapid
Easting/Lat.: 361069 Datum: AGD66	Drainage: Imperfectly drained

Geology

ExposureType: 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: Undulating rises 9-30m 3-10%	Pattern Type: Rises
Morph. Type: Mid-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: Very gently sloped
Slope: 2.5 %	Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Mottled Mesotrophic Brown Chromosol Medium Non-gravelly Loamy Clayey Moderately deep	Principal Profile Form: Dy3.32
ASC Confidence: Analytical data are incomplete but reasonable confidence.	Great Soil Group: No suitable group

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

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

Urochloa mosambicensis Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, angular,

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; ; Calcareous, , , ; Gypseous, , ; Field pH 6 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to -
A2j	0.1 - 0.2 m	Brown (10YR4/3-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded tabular, dispersed, coarse fragments; ; Calcareous, , , ; Gypseous, , ; Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.2 - 0.65 m	Yellowish brown (10YR5/4-Moist); Mottles, 2.5YR48, 20-50% , 5-15mm, Prominent; Mottles, 20-50% ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; ; Calcareous, , , ; Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B/C	0.65 - 0.95 m	Brownish yellow (10YR6/6-Moist); ; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersed, coarse fragments; ; Calcareous, , , ; Gypseous, , ; Field pH 7.5 (Raupach, 0.9); Clear, Smooth change to -
C	0.95 - 1.1 m	; , Calcareous, , , ; Gypseous, , ; Field pH 7.5 (Raupach, 1.1);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	6A		2.4B	1.1	0.29	0.04				
0.2 - 0.65	7A		3.9J	2.9	0.1	0.1		6.8l		1.47
0.65 - 0.95	7.5A		8.5B	6.9	0.13	0.34				
0.95 -	7.8A		9.3B	6.4	0.12	0.32				

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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