

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 178 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	09/10/90	Elevation:	520 metres
Map Ref.:	Sheet No. : 7859 GPS	Rainfall:	No Data
Northing/Long.:	7868496 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	268477 Datum: AGD66	Drainage:	Imperfectly drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Rolling rises 9-30m 10-32%	Pattern Type:	Rises
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	40 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Regolithic Orthic Tenosol Thin Non-gravelly Sandy Clayey Deep	Principal Profile Form:	Uc6.14
ASC Confidence:	Great Soil Group:	Earthy sand

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, Very sparse. *Species includes - *Heteropogon contortus*, *Bothriochloa decipiens*

Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - *Eucalyptus papuana*, *Eucalyptus erythrophloia*

papuana

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - *Eucalyptus crebra*, *Eucalyptus brownii*, *Eucalyptus*

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.03 m	Dark brown (10YR3/3-Moist); ; Sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Few, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.03 - 0.25 m	Yellowish brown (10YR5/6-Moist); ; Sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.25 - 0.4 m	Yellowish brown (10YR5/6-Moist); ; Loamy coarse sand; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Many, fine (1-2mm) roots; Abrupt, Smooth change to -
D1t	0.4 - 0.7 m	Very dark greyish brown (10YR3/2-Moist); Mottles, 10YR56, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.5); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
D2	0.7 - 0.85 m	Yellowish brown (10YR5/8-Moist); Mottles, 10YR64, 20-50% , 5-15mm, Distinct; Mottles, 7.5YR56, 20-50% ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.85); Few, very fine (0-1mm) roots;

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				%
0.03 - 0.25	6.6A		2.8B	1.2	0.41	0.04		3.1I		1.29
			2.7J	0.7	0.3	0.2				6.45
0.25 - 0.4										
0.4 - 0.7	7.1A									
0.7 - 0.85	7.1A		11B	3.8	0.39	0.2				

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,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