

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 109 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	21/08/90	Elevation:	900 metres
Map Ref.:	Sheet No. : 8159 GPS	Rainfall:	No Data
Northing/Long.:	7896267 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	409673 Datum: AGD66	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	5 %	Aspect:	180 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Mesotrophic Red Dermosol Medium Non-gravelly Clay-loamy Clayey Deep	Principal Profile Form:	Gn3.14
ASC Confidence:	Great Soil Group:	Red podzolic soil

No analytical data are available but confidence is fair.

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

Vegetation:

Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - None recorded

Mid Strata - Tree, 6.01-12m, Closed or dense. *Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.2 m	Very dark grey (10YR3/1-Moist); ; Clay loam (Heavy); Strong grade of structure, 2-5 mm, Cast; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Moderately moist; Very weak consistence; , Calcareous, , , ; Gypseous, , ; Field pH 7 (Raupach, 0.05); Abundant, medium (2-5mm) roots; Clear, Smooth change to -
A3	0.2 - 0.3 m	Dark brown (10YR3/3-Moist); ; Light clay; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Moderately moist; Very weak consistence; , Calcareous, , , ; Gypseous, , ; Field pH 5.5 (Raupach, 0.3); Abundant, medium (2-5mm) roots; Clear, Smooth change to -
B1	0.3 - 0.45 m	Yellowish red (5YR5/8-Moist); ; Light medium clay; Strong grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , ; Gypseous, , ; Common, fine (1-2mm) roots; Gradual, Smooth change to -
B2	0.45 - 1 m	Yellowish red (5YR5/8-Moist); ; Light medium clay; Strong grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , ; Gypseous, , ; Field pH 5.5 (Raupach, 0.6); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B3	1 - 1.3 m	Yellowish red (5YR5/8-Moist); Substrate influence, 7.5YR78, 10-20% , 15-30mm, Prominent; Substrate influence, 10-20% ; Light medium clay; Strong grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , ; Gypseous, , ; Field pH 5.5 (Raupach, 1.3); Common, very fine (0-1mm) roots;

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 - 0.2	5.8A		2.9B	2.3	0.29	0.13				
0.2 - 0.3	5.7A									
0.45 - 1	5.4A		0.43B	1.2	0.12	0.16		2.6I		6.15
			0.5J	1.6	0.1	0.1				3.85
1 - 1.3	5.3A		0.36B	0.98	0.03	0.09				

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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