

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 123 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	03/09/90	Elevation:	400 metres
Map Ref.:	Sheet No. : 8058 GPS	Rainfall:	No Data
Northing/Long.:	7788240 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	357315 Datum: AGD66	Drainage:	Well 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:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	2 %	Aspect:	70 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Mesotrophic Red Kandosol Medium Non-gravelly Clay-loamy Clayey Very deep	Principal Profile Form:	Gn2.12
ASC Confidence:	Great Soil Group:	Red earth

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Aristida species, Eragrostis species, Phynchelytrum repens Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Bursaria incana, Eucalyptus setosa, Eucalyptus crebra

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 5.7 (Raupach, 0.05); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B1	0.15 - 0.55 m	Dark red (2.5YR3/6-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.2 (Raupach, 0.3); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B2	0.55 - 1.2 m	Red (10R4/8-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, faint; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.9); Diffuse, Smooth change to -
B22	1.2 - 2.1 m	Red (10R4/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; , Calcareous, , , , Gypseous, , ; Field pH 7.8 (Raupach, 1.8);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0 - 0.15	6.1A		1.9B	0.57	0.3	0.04			
0.15 - 0.55	6.1A								
0.55 - 1.2	6.9A		1.9B	0.7	0.22	0.06	4.1I		1.46
			2.4J	1	0.2	0.1			2.44
1.2 - 2.1	6.8A								

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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