

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 43 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	18/07/90	Elevation:	320 metres
Map Ref.:	Sheet No. : 8057 GPS	Rainfall:	No Data
Northing/Long.:	7758768 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	384684 Datum: AGD66	Drainage:	Poorly 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:	1 %	Aspect:	150 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Dermosolic Redoxic Hydrosol Medium Non-gravelly Clayey Clayey Moderately deep	Principal Profile Form:	Uf2
ASC Confidence:	Great Soil Group:	No suitable

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Eragrostis species, Heteropogon contortus,
Bothriochloa ewartiana Mid Strata - Tree, 3.01-6m, Isolated clumps. *Species includes - Eucalyptus melanophloia, Acacia species

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.2 m	Dark greyish brown (10YR4/2-Moist); Mottles, 7.5YR58, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Sandy light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; , Calcareous, , , Gypseous, , ; Field pH 5.5 (Raupach, 0.04); Common, medium (2-5mm) roots; Gradual, Smooth change to -
A2ec	0.2 - 0.4 m	Light brownish grey (10YR6/2-Moist); Mottles, 7.5YR58, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Wet; Weak consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , Gypseous, , ; Field pH 6.2 (Raupach, 0.3); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B/C	0.4 - 0.6 m	Greyish brown (10YR5/2-Moist); Mottles, 7.5YR58, 10-20% , 5-15mm, Distinct; Mottles, 10YR21, 10-20% ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Very many (50 - 100 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules; , Calcareous, , , Gypseous, , ; Ferricrete, Strongly cemented, Continuous, Massive; Field pH 6.8 (Raupach, 0.6);

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	5.9A		1.2B	0.99	0.18	0.17				
0.2 - 0.4	6.9A									
0.4 - 0.6	7.1A		1.9B	1.9	0.17	0.47		5.5I		8.55
			1.8J	1.9	0.5	0.4				7.27

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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