

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 34 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	16/07/90	Elevation:	330 metres
Map Ref.:	Sheet No. : 8057 GPS	Rainfall:	No Data
Northing/Long.:	7778160 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	388194 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:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	280 degrees

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Sodic Eutrophic Grey Dermosol Thin Non-gravelly Clayey Clayey Deep		Principal Profile Form:	Uf5.3
ASC Confidence:		Great Soil Group:	No suitable

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, Sparse. *Species includes - Aristida species, Eragrostis species
Mid Strata - Tree, 3.01-6m, Isolated clumps. *Species includes - Acacia species, Eucalyptus melanophloia
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus melanophloia, Eucalyptus brownii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Greyish brown (2.5Y5/2-Moist); Mottles, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Very strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 5.8 (Raupach, 0.04); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
A3	0.05 - 0.28 m	Greyish brown (2.5Y5/2-Moist); Mottles, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.18); Few, fine (1-2mm) roots; Gradual, Smooth change to -
B21	0.28 - 1 m	Greyish brown (10YR5/2-Moist); Mottles, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Platy; Smooth-ped fabric; Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6.3 (Raupach, 0.5); Few, fine (1-2mm) roots; Clear, Smooth change to -
B3	1 - 1.2 m	Grey (10YR5/1-Moist); Mottles, 0-2% , 0-5mm, Faint; Mottles, 0-2% ; Medium clay; Moderate grade of structure, 10-20 mm, Platy; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 7.8 (Raupach, 1.2);

Morphological Notes

Observation Notes

Site Notes

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 34 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

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 - 0.05	7.15A		3.2B	2.6	0.22	0.73				
0.05 - 0.28	7.27A									
0.28 - 1	7.8A		4.1B	3.2	0.04	0.96		10.9I		8.81
			5J	3.7	0	2.2				20.18
1 - 1.2	8.3A		5B	4.1	0.04	3.2				

[illegible][illegible]

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 34 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

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