

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1170 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	04/06/92	Elevation:	300 metres
Map Ref.:	Sheet No. : 8058 GPS	Rainfall:	No Data
Northing/Long.:	7797831 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	392276 Datum: AGD66	Drainage:	Poorly drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, 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:	No Data

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Vertic Eutrophic Grey Dermosol Thin Slightly gravelly Clayey Clayey Deep		Principal Profile Form:	Uf6.22
ASC Confidence:		Great Soil Group:	Grey clay

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 - Dichanthium species, Digitaria species, Chrysopogon fallax Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eremophila mitchellii, Atalaya hemiglauca

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, subrounded, Quartz

Profile Morphology

A	0 - 0.09 m	Dark grey (5Y4/1-Moist); ; Medium clay; Moderate grade of structure, Angular blocky; Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Clear change to -
B21	0.09 - 0.8 m	Dark grey (2.5Y4/1-Moist); ; Medium heavy clay (Heavy); Moderate grade of structure, Lenticular; Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; , Calcareous, , , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.7); Gradual change to -
B22	0.8 - 1.4 m	Greyish brown (2.5Y5/3-Moist); ; Medium heavy clay; Moderate grade of structure; Smooth-ped fabric; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 1.3);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg	Acidity		%
0 - 0.09	6.8A		5.1B	9.9	0.39	0.4			
0.09 - 0.8	8.2A		11B	14	0.11	5.7			
0.8 - 1.4	6.5A								

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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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension